1st Addition

SHARP SERVICE MANUAL

No.SZ12M1032LE250M

LCD COLOUR TELEVISION

MODEL : LC-32LE250M

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

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Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

SAFETY PRECAUTION

SAFETY PRECAUTIONSAFETY PRECAUTIONSAFETY PRECAUTION

IMPORTANT SERVICE SAFETY PRECAUTION

■ **Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:**

WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

BEFORE RETURNING THE RECEIVER (Fire & Shock Hazard)

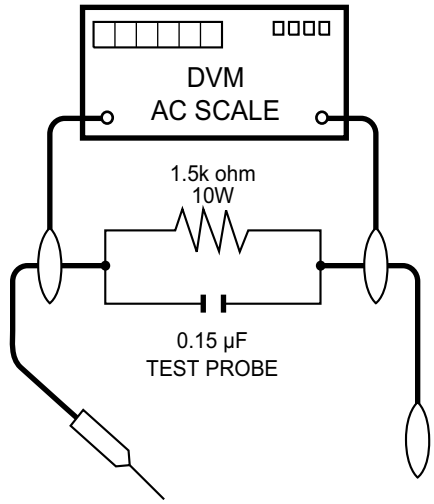
Before returning the receiver to the user, perform the following safety checks:

3. Inspect all lead dress to make certain that leads are not pinched, and check that hardware is not lodged between the chassis and other metal parts in the receiver.
4. Inspect all protective devices such as non-metallic control knobs, insulation materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
5. To be sure that no shock hazard exists, check for leakage current in the following manner.

- Plug the AC cord directly into a 110-240 volt AC outlet.
- Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15 F capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to an earth ground.
- Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity or measure the AC voltage drop across the resistor.
- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.

All checks must be repeated with the AC cord plug connection reversed. (If necessary, a nonpolarized adaptor plug must be used only for the purpose of completing these checks.)

Any reading of 0.74 Vrms (this corresponds to 0.5 mA rms AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the monitor to the owner.



SAFETY NOTICE

Many electrical and mechanical parts in LCD colour television have special safety-related characteristics.

These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by " ⚠ " and shaded areas in the Replacement Parts List and Schematic Diagrams.

For continued protection, replacement parts must be identical to those used in the original circuit.

The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.

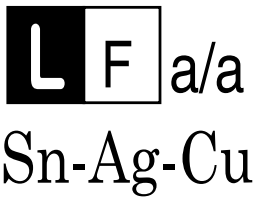
PRECAUTIONS FOR USING LEAD-FREE SOLDER

Employing lead-free solder

- "PWBs" of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWBs and service manuals. The alphabetical character following LF shows the type of lead-free solder.

  Example:

Indicates lead-free solder of tin, silver and copper.



Indicates lead-free solder of tin, silver and copper.

Using lead-free wire solder

- When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

  As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40 C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service branch in your area.

Soldering

- As the melting point of lead-free solder (Sn-Ag-Cu) is about 220 C which is higher than the conventional lead solder by 40 C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.

  Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to turn on and off the power of the bit as required.

  If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

  When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

- Be careful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

PARTS CODE	PRICE RANK	PART DELIVERY	DESCRIPTION
ZHNDAi123250E	BL	J	0.3mm 250g (1roll)
ZHNDAi126500E	BK	J	0.6mm 500g (1roll)
ZHNDAi12801KE	BM	J	1.0mm 1kg (1roll)

CHAPTER 1. OUTLINE

[1] OUTLINE

MAJOR SERVICE PARTS

PWB UNIT

Ref No.	Part No.	Description
N	DKEYMG247FM01	MAIN Unit (ASIA)
N	DKEYMG247FM02	MAIN Unit (SPC)
N	RDENCA462WJPZ	POWER Unit
N	DUNTKG238FM01	LED IR Unit
N	RUNTKB129WJZZ	LED PWB A
N	RUNTKB130WJZZ	LED PWB B

OTHER UNIT

Ref No.	Part No.	Description
N	R1LK315T3HB60W	32-INCH Panel Hiraki

IC FOR EXCLUSIVE USE OF THE SERVICE

Ref No.	Part No.	Description	Q'ty
IC3104	RH-iXD606WJQZQ	Flash IC (ASIA)	1
IC3104	RH-iXD614WJQZQ	Flash IC (SPC)	1

SERVICE JIGS

Ref No.	Part No.	Description	Q'ty
N	QCNW-N120WJQZ	RA WIRE (Main -IR board)	1
N	QCNW-N177WJPZ	Extension Cable, LVDS FFC (Main-Panel Controller)	1
N	QCNW-N179WJQZ	PD WIRE (Main -Power Unit)	1
N	QCNW-N180WJQZ	LED BL wire (Main-Panel BL)	1

CHAPTER 2. SPECIFICATIONS

[1] SPECIFICATIONS

Specifications

Item \ Model			LC-32LE250M
LCD panel			80 cm
Resolution			1,049,088 pixels (1366 × 768)
Video Colour System			PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60
TV Function	TV-Standard		PAL: B/G, D/K, I SECAM: B/G, D/K, K/K1 NTSC: M
	Receiving Channel	VHF/UHF	43.25—863.25 MHz
		CATV	S1—S41ch (including Hyperband)
	TV-Tuning System		Auto Preset 99 ch
	STEREO/BILINGUAL		NICAM: B/G, I, D/K A2 stereo: B/G
Viewing angles			H : 176° V : 176°
Audio amplifier/Speakers			10 W× 2 / 4 × 10 cm 2pcs
Terminals	Antenna input		UHF/VHF 75 Ω DIN type
	INPUT 1		HDMI (HDMI input), AUDIO in (ϕ 3.5 mm jack), PC input
	INPUT 2		VIDEO in, AUDIO in, COMPONENT in
	INPUT 3		VIDEO in, AUDIO in
	OUTPUT		AUDIO out, Headphone (ϕ 3.5 mm stereo)
USB device/File system			USB Memory / FAT/FAT32
Photo file format			JPEG (.jpg) (DCF2.0 compliant). Progressive format jpeg files are not supported.
Music file format (Files may not be playable depending on the bitrate)			MP3 (.mp3) Bitrate: 32 k, 40 k, 48 k, 56 k, 64 k, 80 k, 96 k, 112 k, 128 k, 160 k, 192 k, 224 k, 256 k, 320 kbps Sampling frequency: 32 k, 44.1 k, 48 kHz
OSD language			English/Simplified Chinese/Arabic/French/Portuguese/Russian/Persian/Thai/ Vietnamese/Indonesian
Power Requirement			AC 110—240 V, 50/60 Hz
Power Consumption			53 W (0.8 W Stand by)
Dimensions		without stand	735 (W) × 471 (H) × 113 (D) mm
		with stand	735 (W) × 463 (H) × 167 (D) mm
Weight			7.8 kg (without stand) / 8.3 kg (with stand)
Operating Temperature			0°C — 40°C

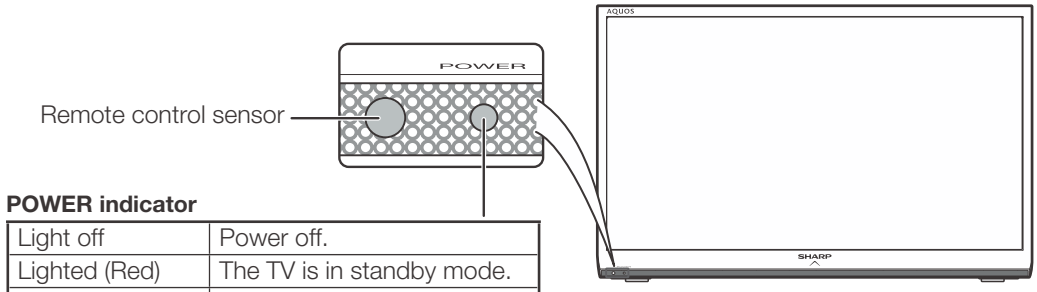
- As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

CHAPTER 3. OPERATION MANUAL

[1] OPERATION MANUAL

Part names

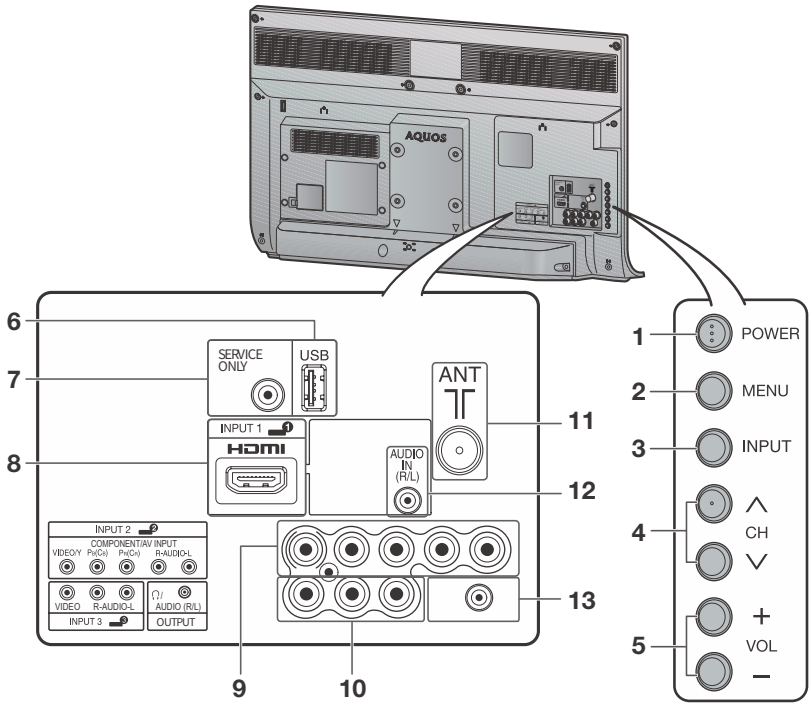
TV (Front)



POWER indicator

Light off	Power off.
Lighted (Red)	The TV is in standby mode.
Lighted (Green)	The TV is on.

TV (Rear)

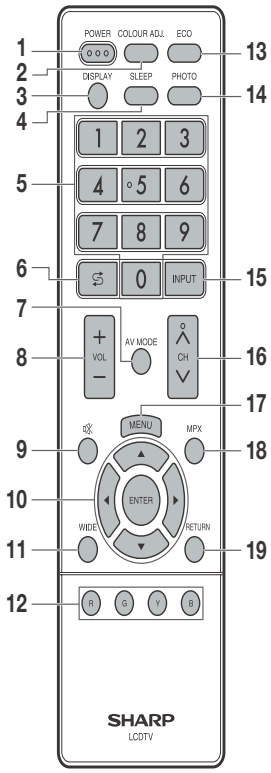


1 **POWER** (On/Off) button
2 **MENU** button
3 **INPUT** button
4 Channel up (∧)/down (∨) buttons
5 Volume up (+)/down (−) buttons
6 USB terminal*
7 SERVICE ONLY terminal**
8 INPUT 1 (HDMI) terminal
9 INPUT 2 (COMPONENT/AV INPUT) terminals
10 INPUT 3 terminals
11 Antenna input terminal
12 AUDIO IN (R/L) terminal
13 ∩/AUDIO OUTPUT terminal

* USB terminal use for USB Media Player.
** Usually do not connect anything to this terminal as it is reserved only for service personnel.

• The illustrations in this operation manual are for explanation purposes and may vary slightly from the actual operations.

Remote control unit



1 POWER (STANDBY/ON)
To switch the power on and off.

2 COLOUR ADJ.
Adjust the colour tone of the image on screen.

3 DISPLAY
Display the channel or input information.

4 SLEEP
Set the Sleep Timer.

0 hr. 30 min. → 1 hr. 0 min. → 1 hr. 30 min.
↓
Off ← 2 hr. 30 min. ← 2 hr. 0 min. ←

5 0 – 9
Set the channel.

6 ⇆ (Flashback)
Press ⇆ to return to the previous selected channel or external input mode.

7 AV MODE
Select an audio and video setting.

8 VOL + /VOL –
Set the volume.
(**VOL +**) Increase the volume.
(**VOL –**) Decrease the volume.

9 (Mute)
Press → Mutes sound.
Press again → Restores sound.
Mute will be cancelled after 30 minutes. However, the TV will not suddenly output loud sound as the volume level will be set to 0 automatically. Increase the volume level by pressing **VOL +**.

10 ▲/▼/◀/▶ (Cursor)
Select a desired item on the setting screen.
ENTER
Execute a command.

11 WIDE
Change the wide image mode.

12 Colour (Red/Green/Yellow/Blue)
The coloured buttons are correspondingly used to select the coloured items on the screen.

13 ECO
Reduce overall power consumption based on user preferences.

14 PHOTO
Display your pictures directly on the TV screen.

15 INPUT (INPUT SOURCE)
Select an input source.

16 CH∧/CH∨
TV input mode: Select the channel.
(**CH∧**) Increase the channel number.
(**CH∨**) Decrease the channel number.

17 MENU
Display the menu screen.

18 MPX
Select the sound multiplex mode.

19 RETURN
MENU mode: Return to the previous menu screen.

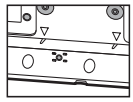
Attaching the stand

- Before attaching (or detaching) the stand, unplug the AC cord from the AC outlet.
- Before performing work spread cushioning over the base area to lay the TV on. This will prevent it from being damaged.

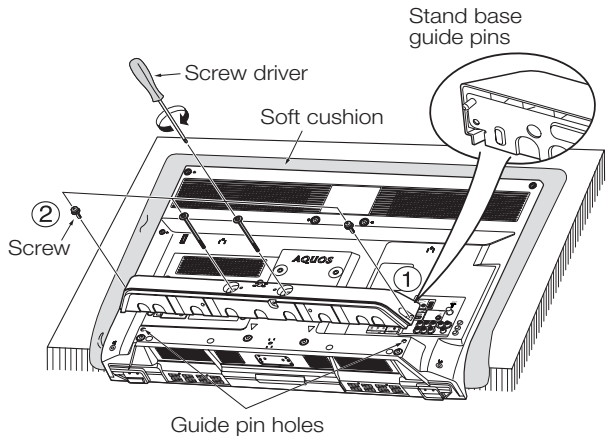
1 Con-rm the screws supplied with the TV.

Screws (×4)
(used in step 3)

2 Insert the stand base guide pins to the stand holes on the rear of the TV. (①)
- Make sure the symbol on the stand base is parallel with the triangle symbol located at the back of the TV.



3 Insert and tighten the 4 screws into the 4 holes on the rear of the stand assembly.(②)



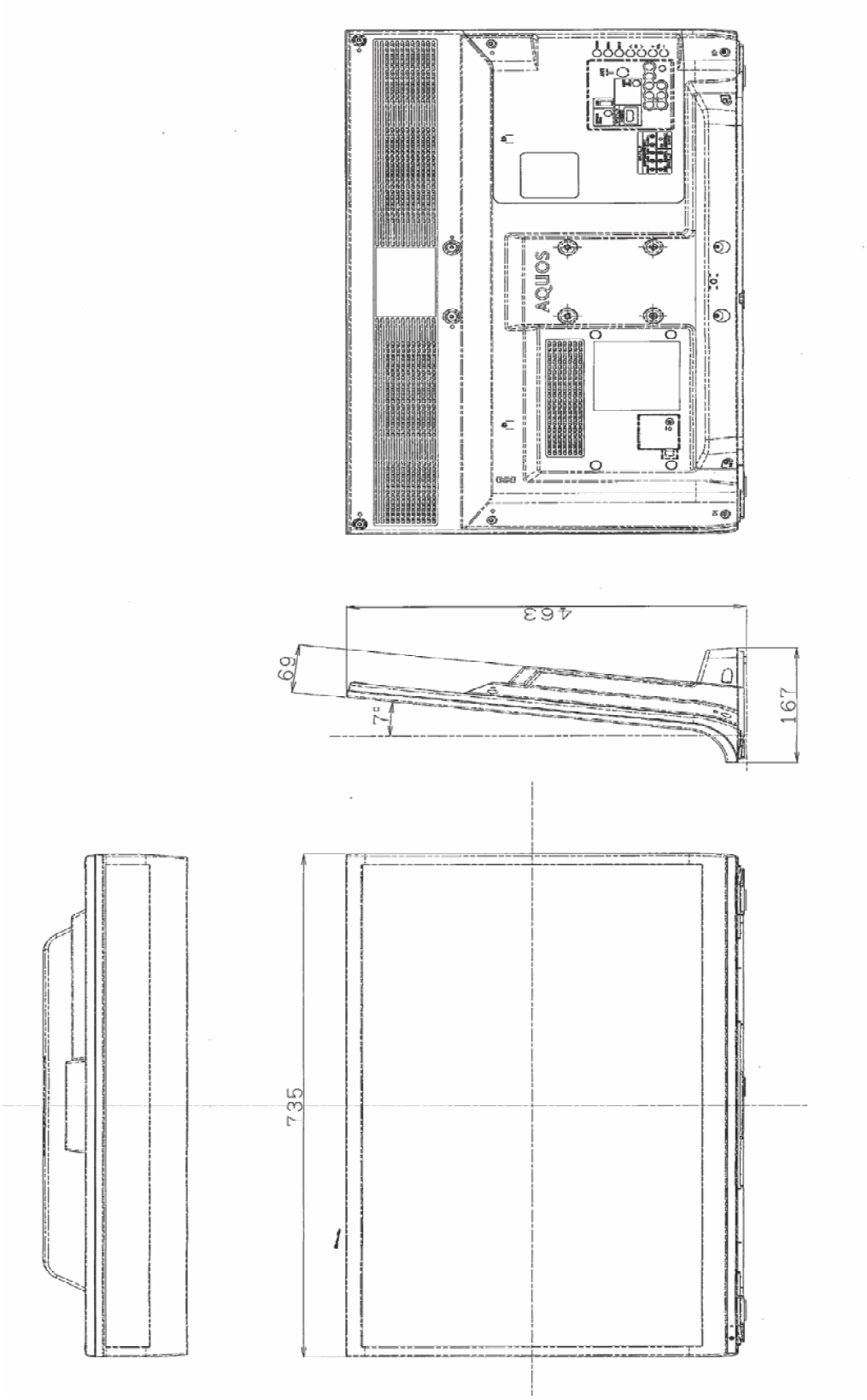
NOTE

- To detach the stand, perform the steps in reverse order.
- The TV position setting is set to 7 backward after attaching the stand.
- Do not remove the plastic wrap before attaching the stand base to protect it from scratches.
- The bottom area of the set (curvy area) must be beyond the table's edge to prevent the TV from damage.

CHAPTER 4. DIMENSIONS

[1] DIMENSIONS

Unit mm

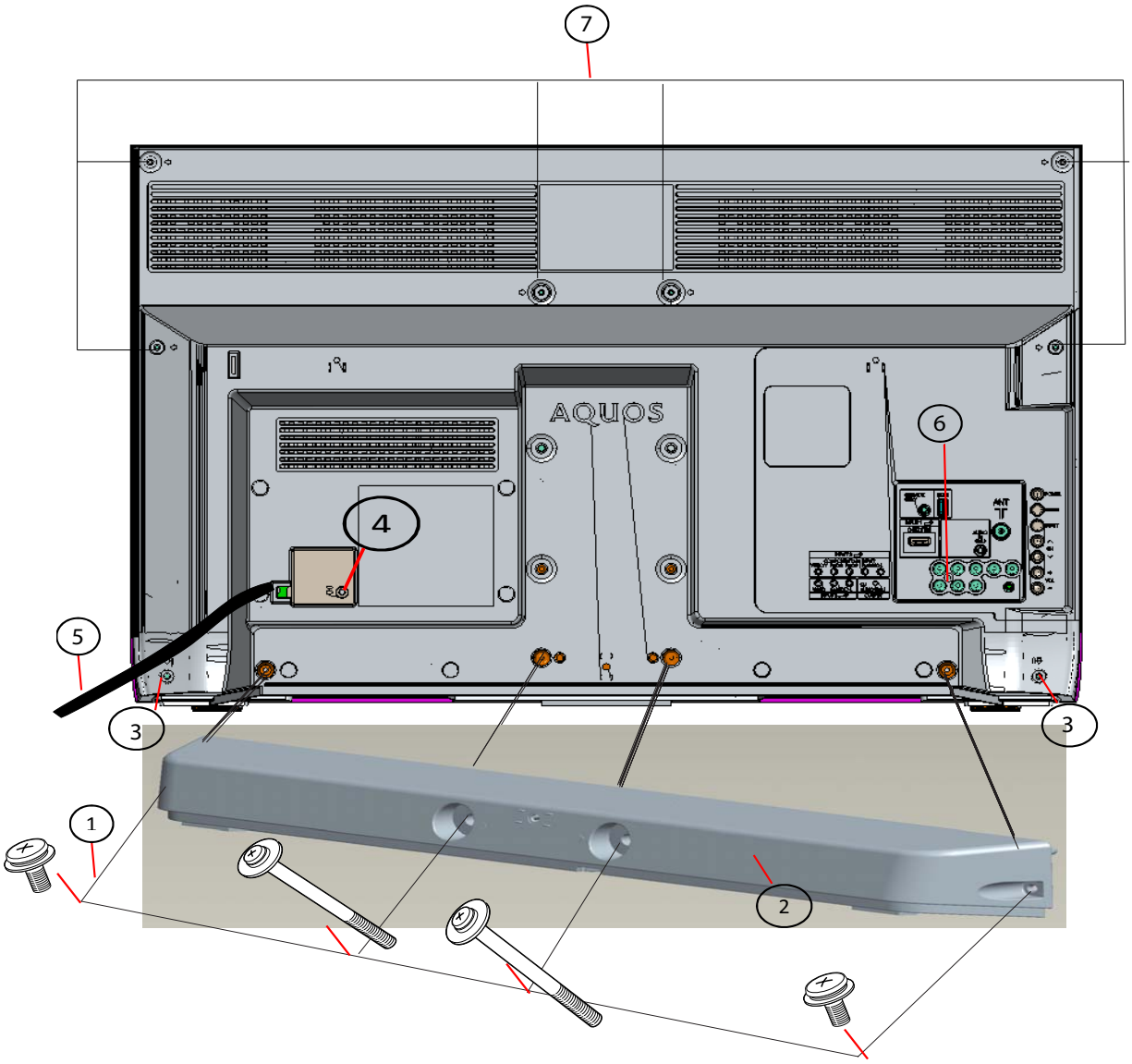


CHAPTER 5. REMOVING OF MAJOR PARTS

[1] REMOVING OF MAJOR PARTS

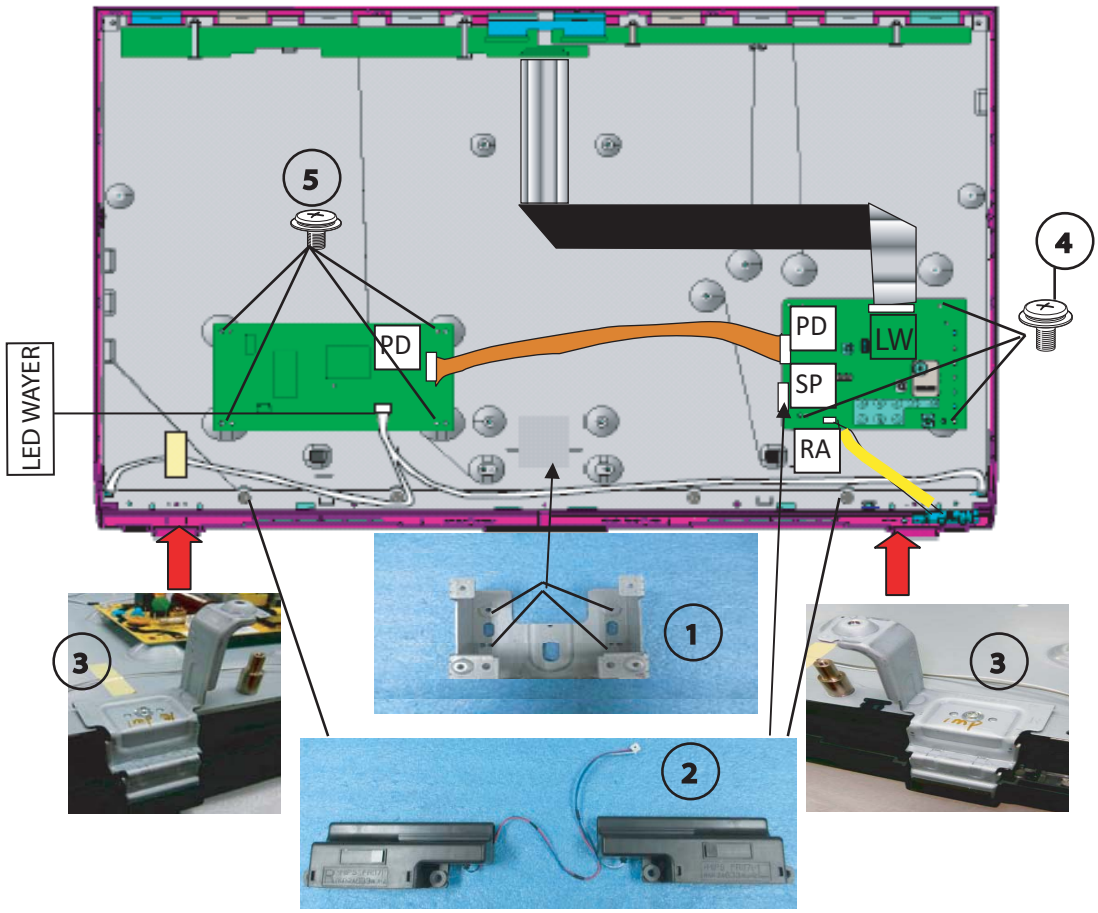
1. Removing of the Rear Cabinet Ass 'y and Stand assembly.

1. Remove the 4 screws ① and detach the Stand assembly ② .
2. Remove the 2 screw ③ , 1 screws ④ and detech AC cord ⑤ .
3. Remove the 1 screw ⑥ , 6 screws ⑦
4. Detach the Rear Cabinet Ass'y .



2. Removing of the Bottom Bracket and speaker L/R

1. Remove 4 screw bottom bracket (1)
2. Disconnect SP wayer & remove speaker from L / R panel bosses (2)
3. Remove 1 screw from front angle L/R & remove front angle (3)
4. Disconnect PD,LW,RA & remove 3 screw main unit (4)
5. Disconnect LED wayer & remove 4 screw sub main unit (5)



3. Removing of the LCD Panel Module

1. Detech the 10 lock hook (1) refer figure 1.

2, and detech the LCD Module (2)

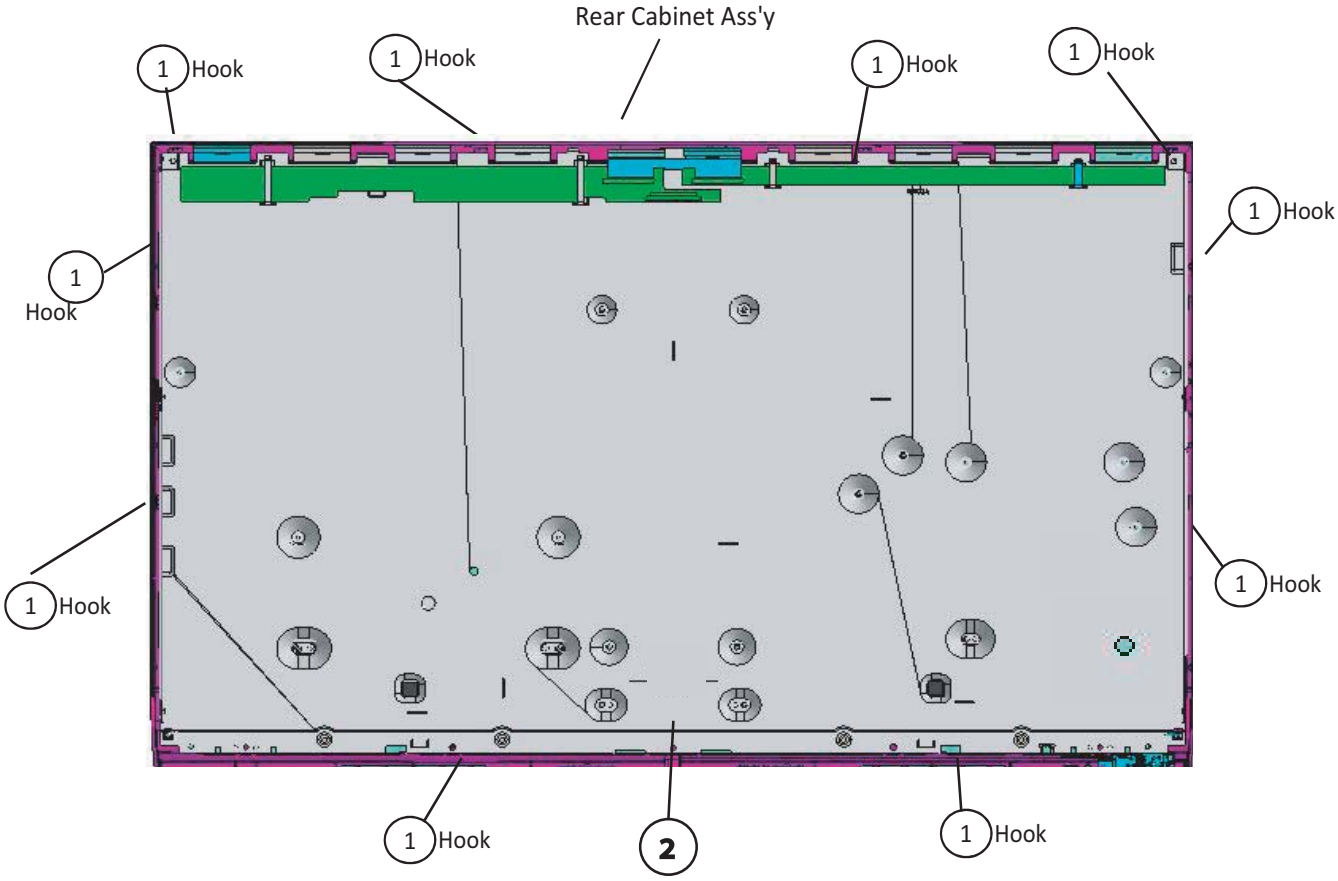
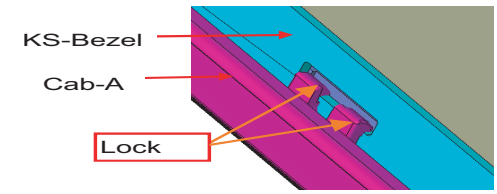


Figure 1



Note:
Make sure perfectly detech lock

CHAPTER 6. ADJUSTMENT

[1] ADJUSTMENT

[1] ADJUSTMENT PROCEDURE

1. Entering and cancel the adjustment process mode

1) While holding down the TV/VIDEO and Volume DOWN keys at the same time, plug in the AC cord to turn on the power. (“K” standing for inspection process mode is displayed on the upper left position of the screen.)
2) Press the Channel DOWN and Volume DOWN keys at the same time. (The adjustment process mode screen appears.)
3) To cancel it, turn off the power using the Power switch or remote control.

2. Remote controller key operation and description of display in adjustment process mode.

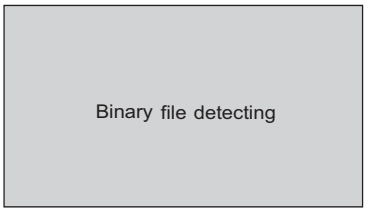
1. key operation

Remote controller key	Main unit key	Function
CH (∧ / ∨)	CH (∧ / ∨)	Changing channel (UP/DOWN)
VOL (+ / –)	VOL (+ / –)	Changing volume (UP/DOWN)
Cursor (▲ / ▼)	————	Turning a page (PREVIOUS/NEXT)
Cursor (◀ / ▶)	————	Changing a selected line setting (+10/-10)
INPUT button on remote controller	INPUT button	Input source switching (toggle switching) (TV INPUT1 INPUT2 INPUT3 USB)
ENTER	————	————

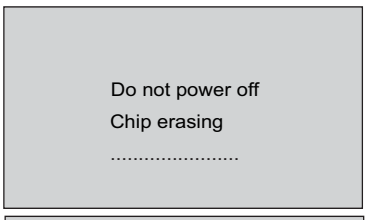
* Input mode is switched automatically when relevant adjustment is started so far as the necessary input signal is available.

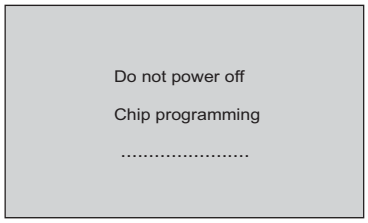
3. Software upgrading.

1) Plug off the LCD TV.
2) Insert the USB device to the USB terminal at the LCD TV.
   (Make sure that the latest software is installed in the USB device).
3) Hold the LCD TV power key and plug on the LCD TV.
4) LCD TV is on and detecting the USB device.

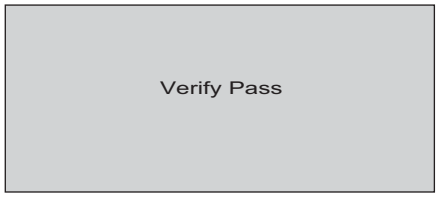


5) A few seconds later, the software upgrading will start automatically.

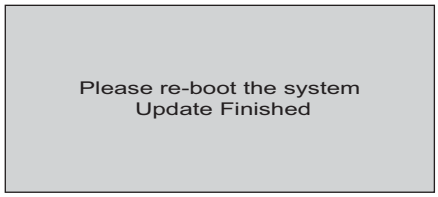




6) Let the process running & entering verification.



7) Software is successfully installed when the following appears at the end of the process.



8) Plug off the LCD TV and plug ON again as usual.

9) LCD TV is running with the latest software.

LCD TV ADJUSTMENT ITEM

1. EDID DATA INPUT

No need to input EDID

2. SIGNAL ADJUSTMENT

A. PICTURE ADJUSTMENT

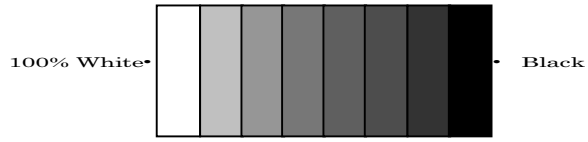
Confirmation of signal from generator (setting to spec level)

PAL Composite signal		• 0.7Vp-p ± 0.02Vp-p (pedestal to white level)
15K Component signal (50Hz)	• Y level	• 0.7Vp-p ± 0.02Vp-p (pedestal to white level)
	Pb, Pr level	• 0.7Vp-p : 0.7Vp-p ± 0.02Vp-p
33K Component signal	• Y level	• 0.7Vp-p ± 0.02Vp-p (pedestal to white level)
	Pb, Pr level	• 0.7Vp-p , 0.7Vp-p ± 0.02Vp-Com

a) Adjustment Mode

	ITEM	CONDITION	PROCEDURE
1	Adjustment Mode		Press the test key at the test remote control

b) Component 15K 50Hz Signal Adjustment (COMP-SD)

	ITEM	CONDITION	PROCEDURE
1	Setting	[Signal] COMP 15K 50Hz (576i) 100% Full-field Colour Bar [Terminal] COMPONENT INPUT 3	• Feed the COMPONENT 15K 50Hz (576i) 100% Full-field Colour Bar signal(100% colour saturation) to COMPONENT INPUT 3 
2	Auto Adjustment	Test Mode page4 (COMP SD)	At the related page, move cursor to [COMP SD ADJ], press ENTER. [OK] appears when finished.

c) Component 33K 60Hz Signal Adjustment (COMP-HD)

	ITEM	CONDITION	PROCEDURE
1	Setting	[Signal] COMP 33K 60Hz (1080i) 100% Full-field Colour Bar [Terminal] COMPONENT INPUT 3	• Feed the COMPONENT 33K 60Hz (1080i) 100% Full-field Colour Bar signal(100% colour saturation) to COMPONENT INPUT 3
2	Auto Adjustment	Test Mode page 5 (COMP HD)	At the related page, move cursor to [COMP HD ADJ], press ENTER. [OK] appears when finished.

B. WHITE BALANCE ADJUSTMENT

a) White Balance Adjustment

	ITEM	CONDITION	PROCEDURE
1	Setting	Backlight : MAX AV Mode : DYNAMIC Active Backlight : OFF Set the luminance meter on the centre of the screen	For the details of white balance adjustment procedure, please refer to white balance adjustment spec for Kameyama model. 1. Confirm the set condition. 2. Connect the white balance jig. 3. Through RS-232C command, adjustment mode screen is displayed.
2	Auto Adjustment	[command] Adjustment Mode KRSW0001 KKT10037 FACT0001 Setting KYOF0001 OSDS0001 SBSL16_ _ Multi point adj. Mode MSET0000 WBI20255 Point 2 WBI20229 MG2G**** MG2B**** MG2R**** Point 1 WBI10051 MG1G**** MG1B**** MG1R**** Set Max.Level MGMG**** MGMR**** MGMB**** Write MSET0003	[Adjustment Procedure] 1. Using the R/C, set the LCD TV to adjustment mode. 2. Measure Max brightness (L_{max}). 3. Calculate min. brightness (L_{min}) = L_{max}/3000. 4. Measure Point 2 brightness (L_{high}). 5. Set the reference value R,G,B of Point 2 (Ref.2) = 3664 x (229 / P2) where P2 = $255 \times [(L_{high} - L_{min}) / (L_{max} - L_{min})]^{1/2.2}$ 6. Set the specified gradation for point 2, fix the most faint colour to get reference value, adjust others 2 colour to minus adjustment for reference value of point 2. 7. Measure Point 1 brightness (L_{low}). 8. Set the reference value R,G,B of Point 1 (Ref.1) = 816 x (51 / P1) where P1 = $255 \times [(L_{low} - L_{min}) / (L_{max} - L_{min})]^{1/2.2}$ 9. Set the specified gradation for point 1. Set G of point 1 to the default value [(Ref.1 x G value of point 2 / Ref.2), with fractions rounded] and adjust RB to the reference value of point 1. 10. Set the G of point Max. to the default value (4080 x G value of point 2 / Ref.2). Set the R,B Max. value [G_{max} – G value of point 2 + (R,B value of point 2)]. 11. Adjusted value is writing at [command] MSET0003. 12. Shut down the AC power. • Initial value at RGB 2 point : 3664 • Initial value at RGB 1 point : 816

			[Adjustment value] • Teaching set send by engineering dept is set as reference. [Reference values for adjustment reference] Equipment : Luminance meter [Minolta CA-210]

	Level	Spec Data	Adjustment Spec.	Inspection Spec.
Point 2 ref. values	229	x=0.272 y=0.277	• 0.0010	• 0.0020
Point 1 ref. values	51	x=0.272 y=0.277	• 0.0045	• 0.0090

Ref. : For inspection, set the LCD TV as below.

AV MODE : [DYNAMIC] (Reset)

Aging Time : Minimum 60 minutes

3. FACTORY SETTING

AC power is plug off after shipment setting is done.

Caution: Do not plug on again after shipment setting is done. If do, please re-do the shipment setting. Do not off with remote control.

ITEM	CONDITION	PROCEDURE
Factory setting	AC power off to exit the factory setting.	1. Setting is done with test remote control. 2. Press the 'Factory Setting' key on the remote control continuously. 3. When Green background appears on screen and 'K' mark disappears, setting is completed.
		The followings are initialised to factory setting 1) User setting 2) Channel data (e.g. broadcast frequencies) 3) Manufacturer's option settings 4) Password data 5) Setting values are set based on model destination

Model Name	Factory Setting Key Name	Remote Control Code	S-System Setting	OSD Language Setting
Asia ,Near and Middle East	M-Setting	100000001010110	B/G	ENGLISH
PHILIPPINES	P-Setting	100000001011110	M	ENGLISH

Please do inspection for **A3KLED3P (PHILIPPINES) using NTSC signal.

CHAPTER 7. TROUBLESHOOTING TABLE

[1] TROUBLESHOOTING TABLE

[1] TROUBLESHOOTING TABLE

No power (front LED failure to light up) or no startup (front LED failure to turn from red to green)

↓

Is the AC cord connector tightly connected to the set?	NO →	Reconnect the AC cord tightly and turn on the power again.

↓ YES

Are the wire harnesses and other cables properly connected in the set?	NO →	Reconnect the wire harnesses and other cables properly in the set.

↓ YES

Is there the AC_CTRL and POWER_LED signal input at pins (70) and (44) of IC3301	NO →	Check the AC_CTRL signal line POWER_LED signal line.

↓ YES

Are the DC/DC converter outputs and the output voltages along the control lines as specified? 1) M+5.6V (IC9601) 2) D+1.26V (IC9602) 3) D+5V (IC9601) 4) D+3.3V (IC9603) 5) D+1.8V (IC9606) 6) D+2.5V (IC9608)	NO →	Check the DC/DC converters and the control lines. Replace defective parts as required.

With [RF] signal input **No video onscreen (1)**

↓

No video in the UHF/VHF reception

↓

Is there IF output from the tuner pin(8) of TU1101 as specified? NO → Check TU1101 and its peripheral circuits.

↓ YES

Is there VIF input at pin 38 & 39 of IC3301? NO → Check the circuit between TU1101 & IC3301.

↓ YES

Are there the signal outputs of IC3301? NO → Check IC3301 and its peripheral circuit.

↓ YES

Check LVDS cable, LCD controller (incl. panel) and their peripheral circuits.

With <Video> signal input **No video onscreen (3)**

↓

No external input video onscreen <INPUT 3>

↓

Is INPUT 3 selected on the input select menu screen? NO → Select INPUT 3 on the input select menu screen to pick up the right input signal.

↓ YES

Is there the video signal input at pin (19) of IC3301? NO → Check the line between pin (9) of TL539 and pin (19) of IC3301.

↓ YES

Are there signal outputs of IC3301? NO → Check IC3301 and its peripheral circuits.

↓ YES

Check LVDS cable, LCD controller (incl. panel) and their peripheral circuits.

With <Component> signal input **No video onscreen (2)**

No external input video onscreen <INPUT 2>

Is INPUT 2 selected on the input select menu screen?

NO → Select INPUT 2 on the input select menu screen to pick up the right input signal.

YES

Are there the Y, Pb and Pr signal inputs at pins (13), (11) and (15) of IC 3301 respectively?

NO → Check the line between pins (6) /(14)/(18) of TL563 and pins (13)/(11)/(15)of IC3301.

YES

Is input waveform of IC3301 normal?
Y=(13) pin, Pb=(11) pin, Pr=(15) pin

NO → Check IC3301 and its peripheral circuits.

YES

Check LVDS cable, LCD controller (incl. panel) and their peripheral circuits.

With <HDMI> signal input **No video onscreen (4)**

No external input video onscreen <INPUT 1>.

Is INPUT 1 selected on the menu screen?

NO → Select INPUT 1 on the input select menu screen to pick up the right signal input.

YES

Are there signal outputs from SC1501 to IC3301?

NO → Check peripheral circuits between SC1501 and IC3301.

YES

Are there signal outputs of IC3301?

NO → Check IC3301 and its peripheral circuits.

YES

Check LVDS cable, LCD controller (incl. panel) and their peripheral circuits.

No audio heard (1)

↓

No sound in the UHF/VHF reception.

↓

Is the IF output from the tuner pin (8) of TU1101 as specified? — NO → Check TU1101 and its peripheral circuits.

↓ YES

Is there the I2C signal input at pins (42), (43) of IC3301? — NO → Check IC3301 and its peripheral circuits.

↓ YES

Is there audio signal intput at pin(22),(32) of IC1702? — NO → Check connection between IC3301 and IC1702 and its peripheral circuits.

↓ YES

Is the L-ch audio signal output at pin(10),(11),(16),(17) of IC1702 normal ?

Is the R-ch audio signal output at pin(2),(3),(8),(9) of IC1702 normal ? — NO → Check IC1702 and its peripheral circuits.

↓ YES

Are the audio signal L-ch and R-ch output at (3)/(4) and (1)/(2) of P1702 normal? — NO → Check circuit between IC 1702 & P1702.

↓ YES

Check speakers and their peripheral circuits.

No audio heard (2)

↓

No external audio heard

<INPUT 2>

Is there the L-ch audio signal input from pin (30) of input terminal TL563 to pin (26) of IC 3301?
Is there the R-ch audio signal input from pin (26) of input terminal TL563 to pin(27) of 3301?

<INPUT 3>

Is there the L-ch audio signal input from pin (20) of input terminal TL539 to pin (23) of 3301?
Is there the R-ch audio signal input from pin (15) of input terminal TL539 to pin (24) of IC3301?

↓ YES

Is there the I2C signal input at pin (42), (43) of IC3301? — NO → Check IC3301 and its peripheral circuits.

↓ YES

Is there audio signal input at pin(22),(32) of IC1702? — NO → Check connection between IC3301 and IC1702 and its peripheral circuits.

↓ YES

Is the L-ch audio signal output at pin(10),(11),(16),(17) of IC1702

Is the R- ch audio signal output at pin(2),(3),(8),(9) of IC1702 normal ?

— NO → Check IC1702 and its peripheral circuits.

↓ YES

Are the audio signal L-ch and R-ch output at (3)/(4) and (1)/(2) of P1702 normal? — NO → Check circuit between IC1702 & P1702 .

↓ YES

Check speakers and their peripheral circuits.

No audio heard (3)

No HDMI sound heard. <INPUT 1>
(*INPUT 1 is digital audio.)

Does the HDMI image appear onscreen?
NO → Refer to "<INPUT 1> in No external input video onscreen (HDMI)".

YES

No audio output from <INPUT 1>
NO → Check the EDID.

YES

Are waveforms input in to the pins of IC3301 normally?
NO → Check peripheral circuits IC3301.

YES

Is there audio signal input at pin(22),(32) of IC1702
NO → Check connection between IC3301 and IC1702 and its peripheral circuits.

YES

Is the L-ch audio signal output at pin(10) ,(11),(16),(17) of IC1702 normal ?
Is the R-ch audio signal output at pin (2),(3),(8),(9) of IC1702 normal ?
NO → Check IC1702 and its peripheral circuits.

YES

Are the audio signal L-ch and R-ch output at (3)/(4) and (1)/(2) of P1702 normal?
NO → Check circuit between IC1702 & P1702.

YES

Check speakers and their peripheral circuits.

No audio heard (4)

No sound from the HDMI sound input terminal.
(INPUT 1 analog audio)

YES

Is there the L-ch audio signal input from pin (2) of external input terminal J501 (HDMI AUDIO IN) to pin (28) of IC3301?
Is there the R-ch audio signal input from pin (3) of external input terminal J501 (HDMI AUDIO IN) to pin (29) of IC3301?

YES

Are I2S signal output from the pins (42), (43) of IC3301 normally? — NO → Check peripheral circuits of IC3301.

YES

Is there audio signal input at pin(22),(32) of IC1702 — NO → Check connection between IC3301 and IC1702 and its peripheral circuits.

YES

Is the L-ch audio signal output at pin (10),(11),(16),(17) of IC1702 normal ?
Is the R- ch audio signal output at pin(2),(3),(8),(9) of IC1702 normal? — NO → Check IC1702 and its peripheral circuits.

YES

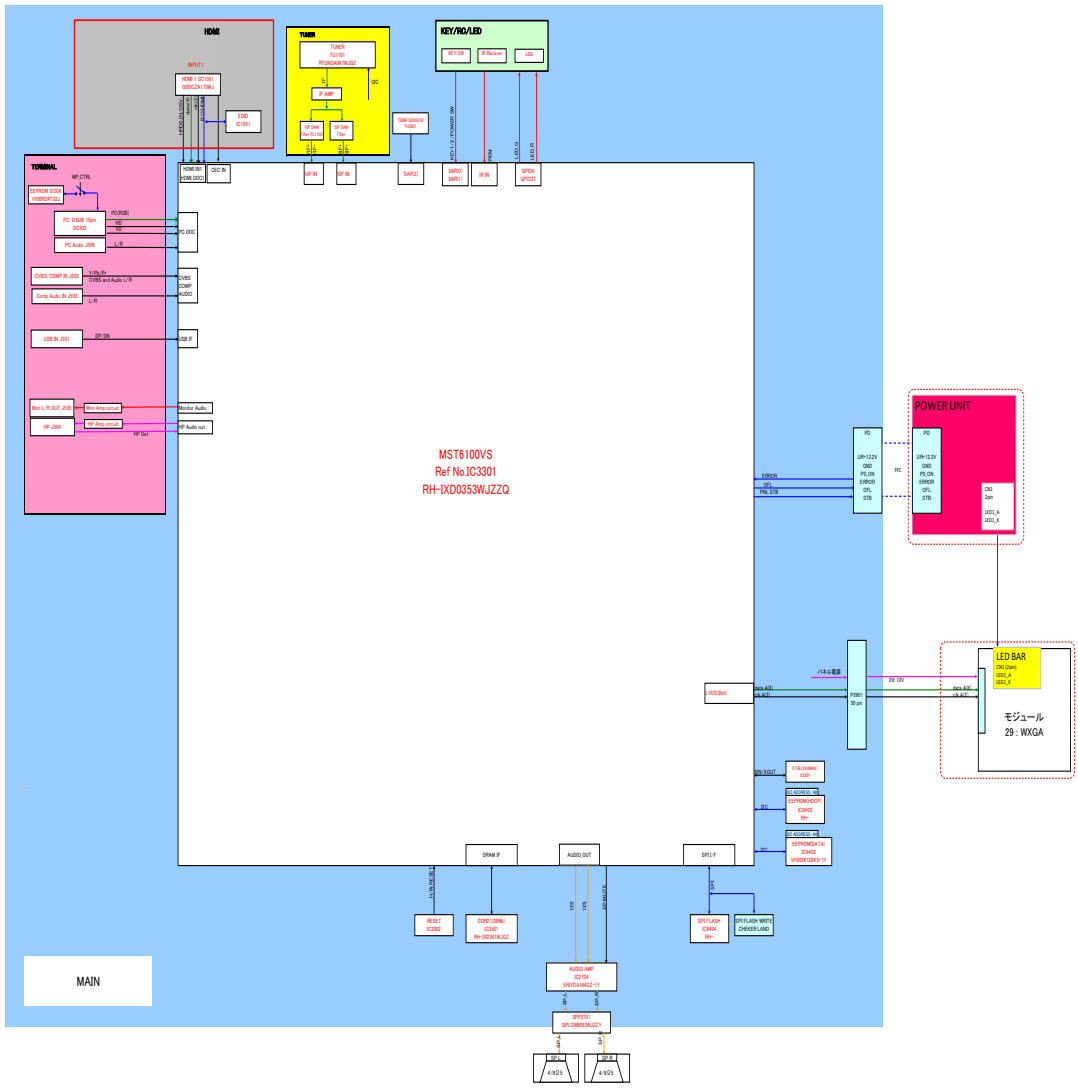
Are the audio signal L-ch and R-ch output at (3)/(4) and (1)/(2) of P1702 normal? — NO → Check circuit between IC1702 & P1702.

YES

Check speakers and their peripheral circuits.

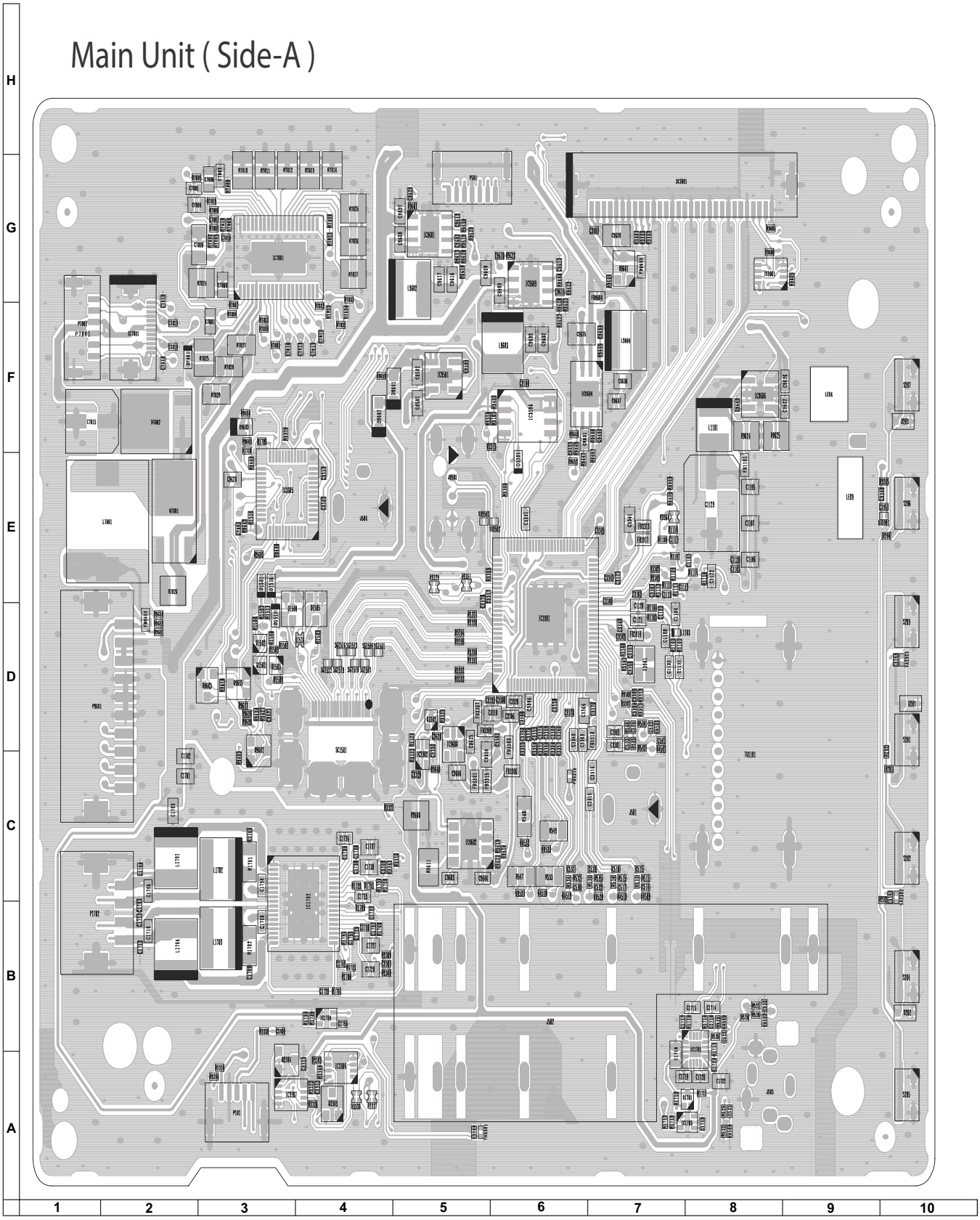
CHAPTER 8. OVERALL WIRING / BLOCK DIAGRAM

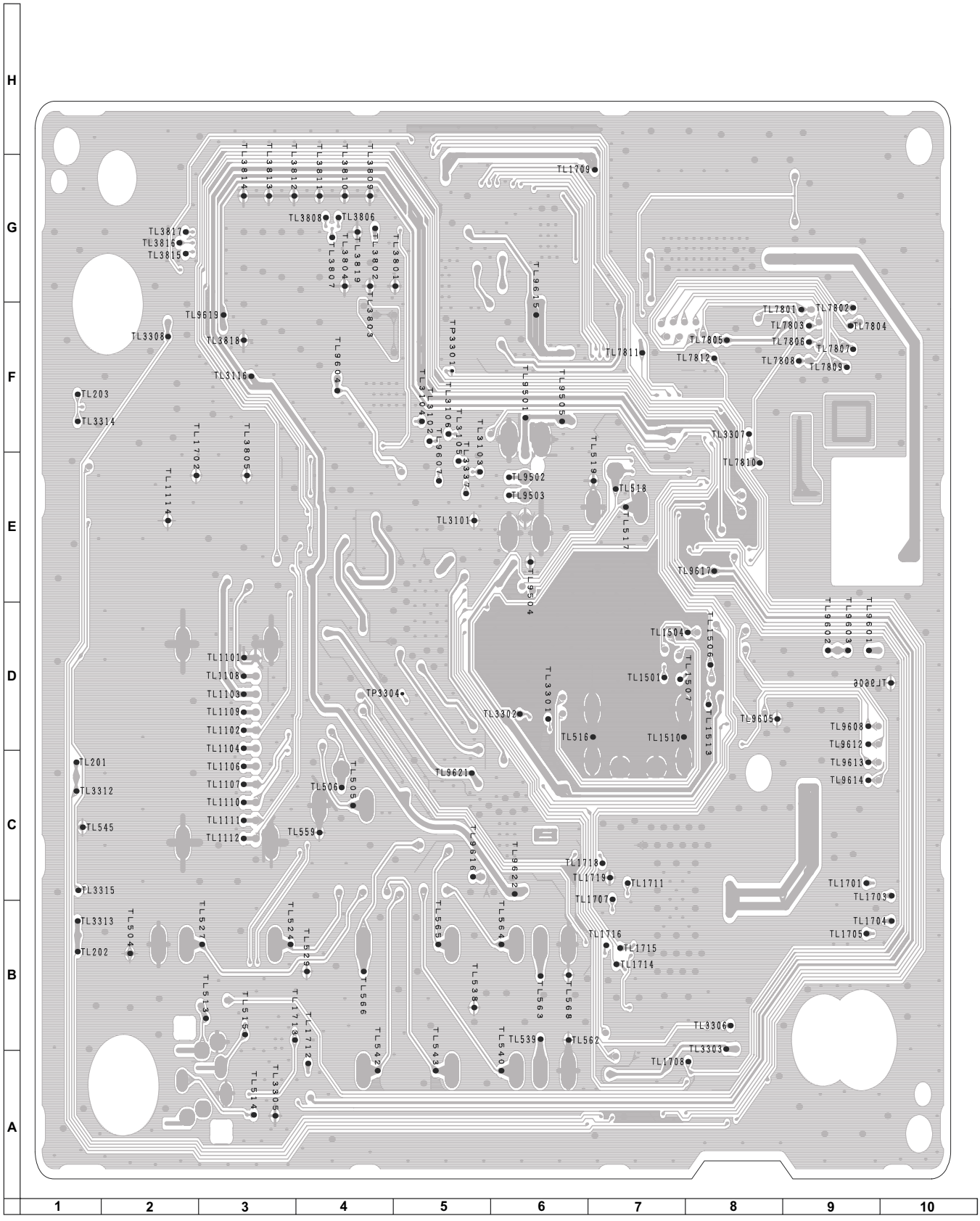
[1] SYSTEM BLOCK DIAGRAM



CHAPTER 9. PRINTED WIRING BOARD ASSEMBLIES

[1] MAIN Unit / LED PWB




H
G
F
E
D
C
B
A
1
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5
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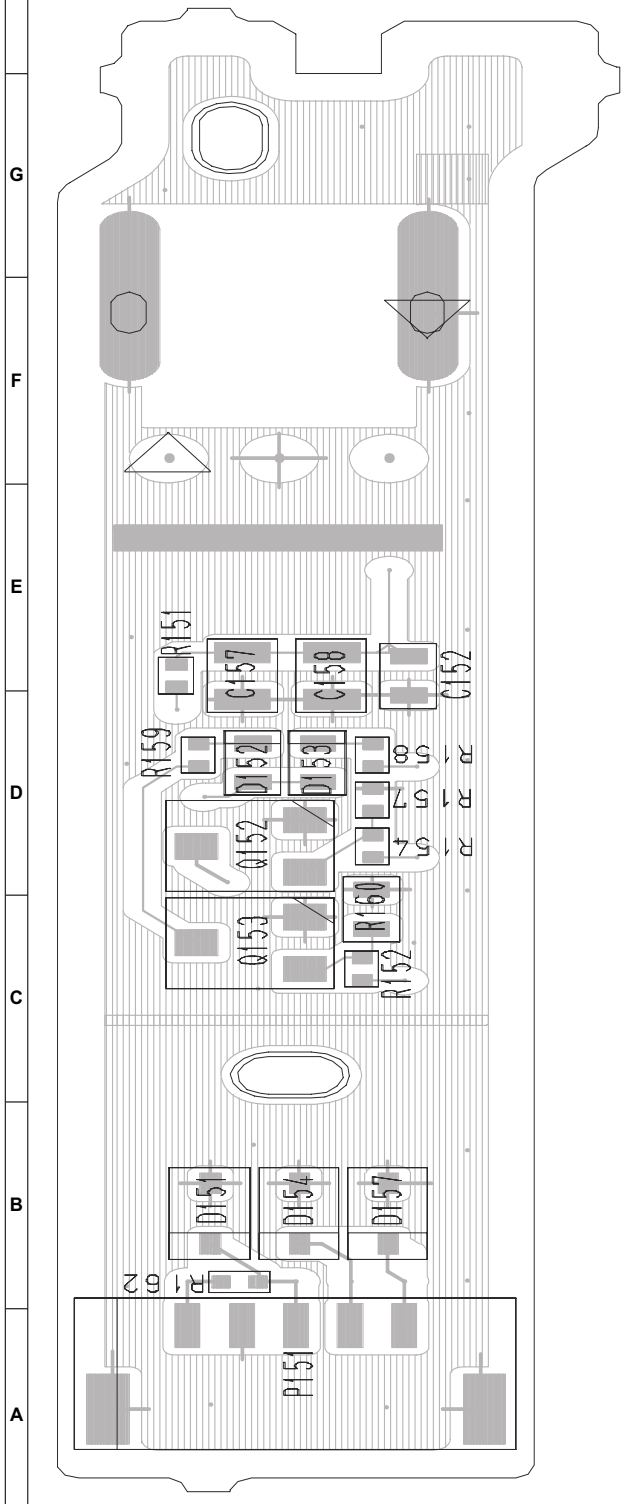
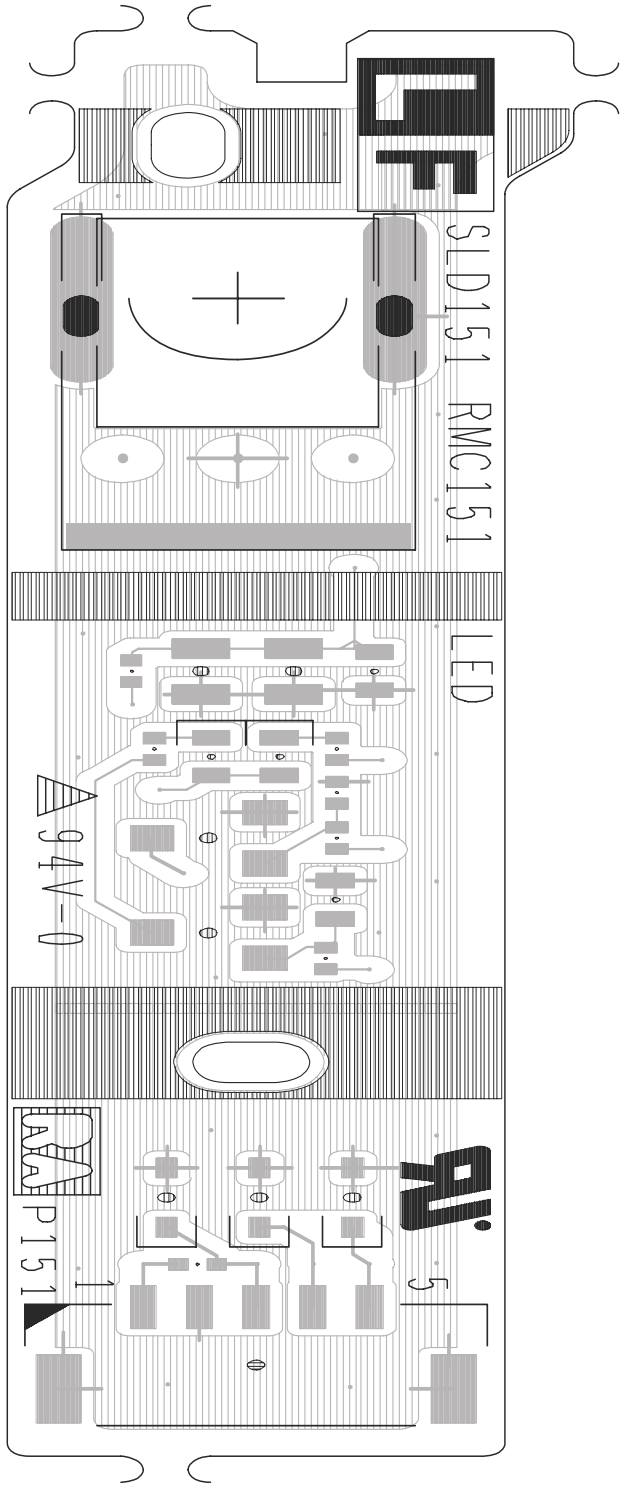
8
9
10

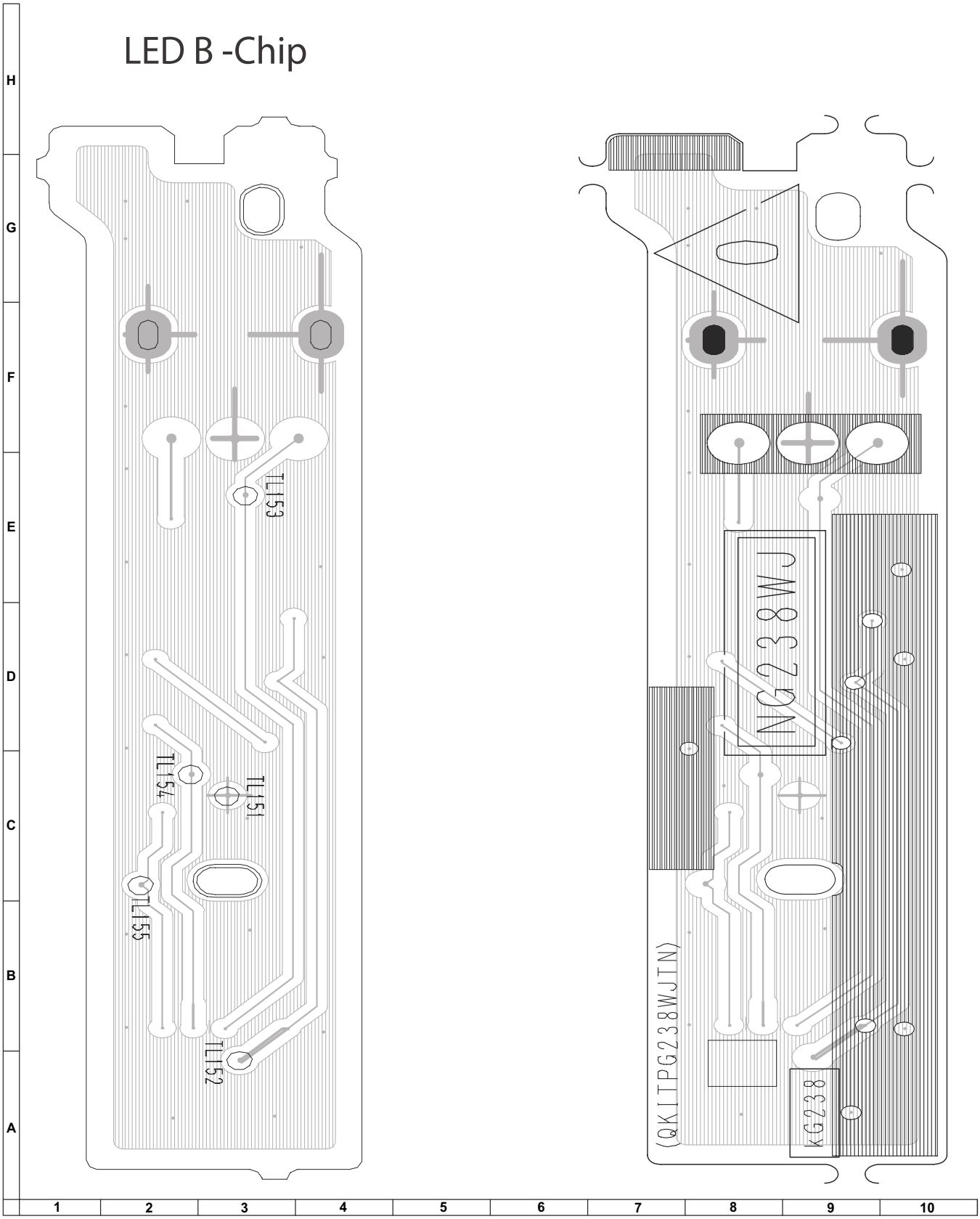
LED A -Chip



LED A -Symbol



LED B -Chip


H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
TL153
TL154
TL151
TL155
TL152
NG238WJ
(QKITPG238WJTN)
KG238

CHAPTER 10. SCHEMATIC DIAGRAM

[1] DESCRIPTION OF SCHEMATIC DIAGRAM

1. VOLTAGE MEASUREMENT CONDITION:

1) The voltages at test points are measured on exclusive AC adaptor and the stable supply voltage of AC 110-240V. Signals are fed by a colour bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

2. INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1) The unit of resistance " " is omitted.

   (K=k =1000 , M=M).

2) All resistors are ± 5%, unless otherwise noted.

   (K= ± 10%, F= ± 1%, D= ± 0.5%)

3) All resistors are 1/16W, unless otherwise noted.

CAPACITOR

1) All capacitors are F, unless otherwise noted.

   (P=pF= F).

2) All capacitors are 50V, unless otherwise noted.

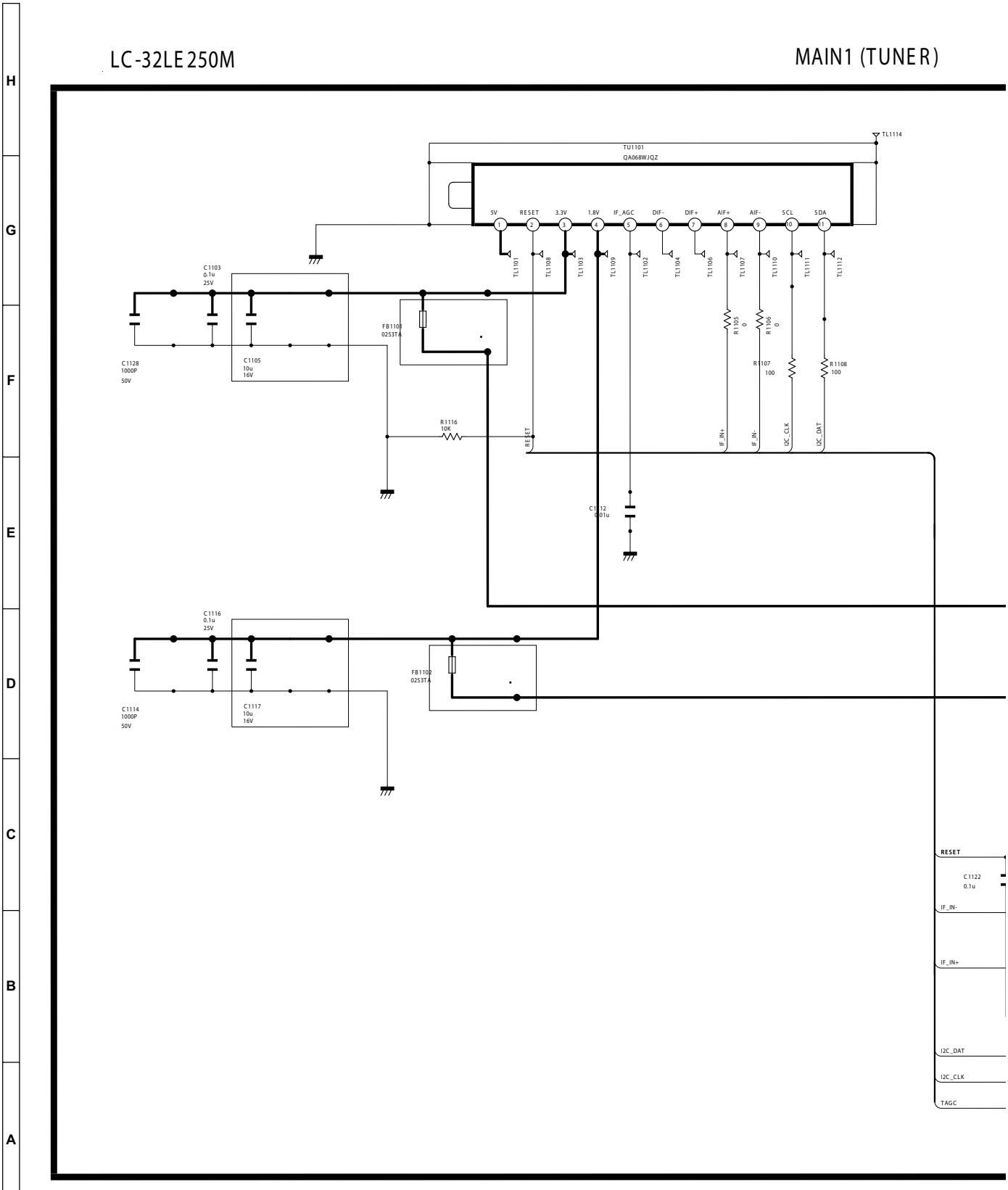
CAUTION:
This circuit diagram is original one, therefore there may be a slight difference from yours.

SAFETY NOTES:
1) DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.
2) SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

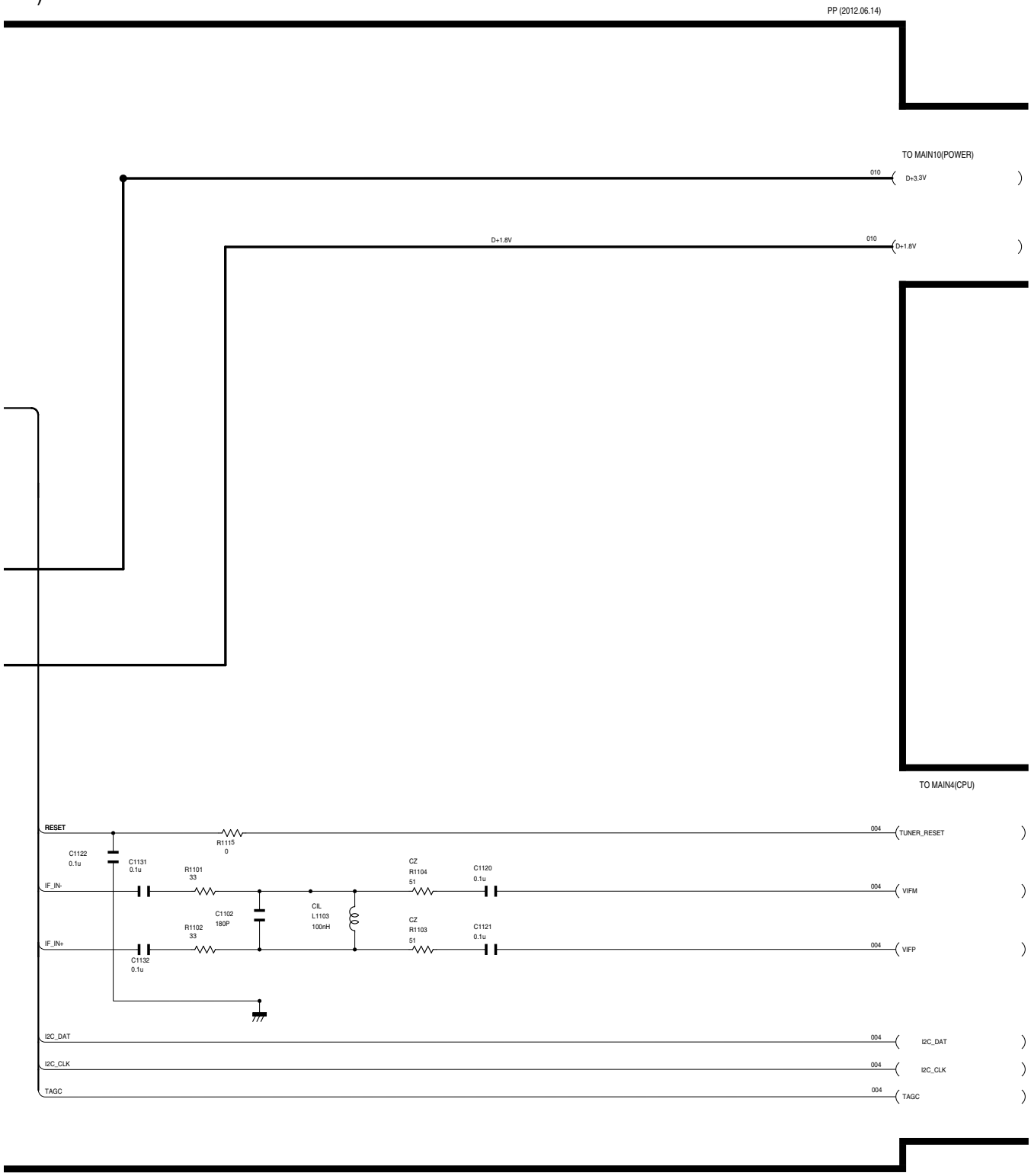
IMPORTANT SAFETY NOTICE:
PARTS MARKED WITH " ⚠ " ( ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

LC-32LE250M

MAIN1 (TUNER)



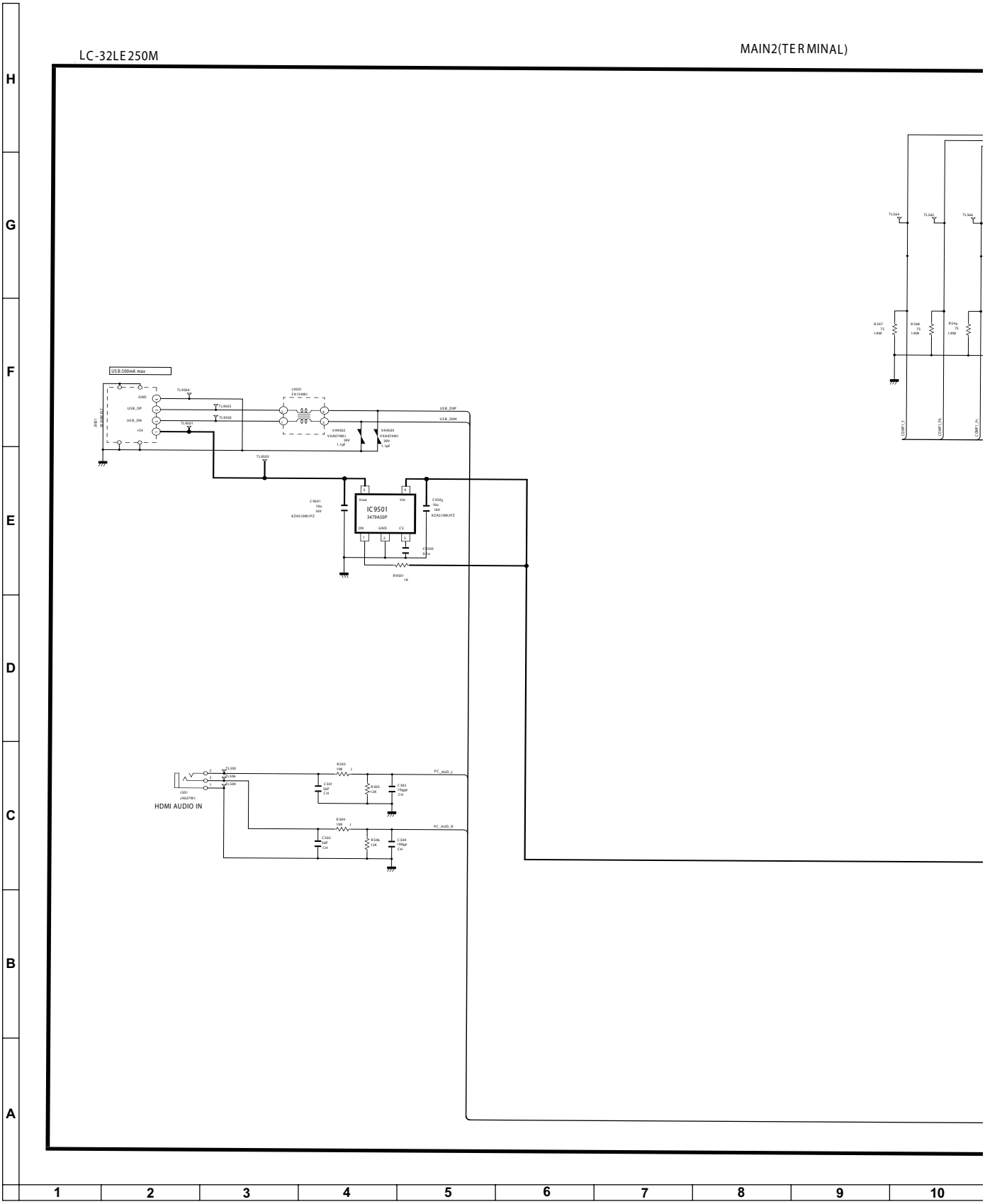
IER)

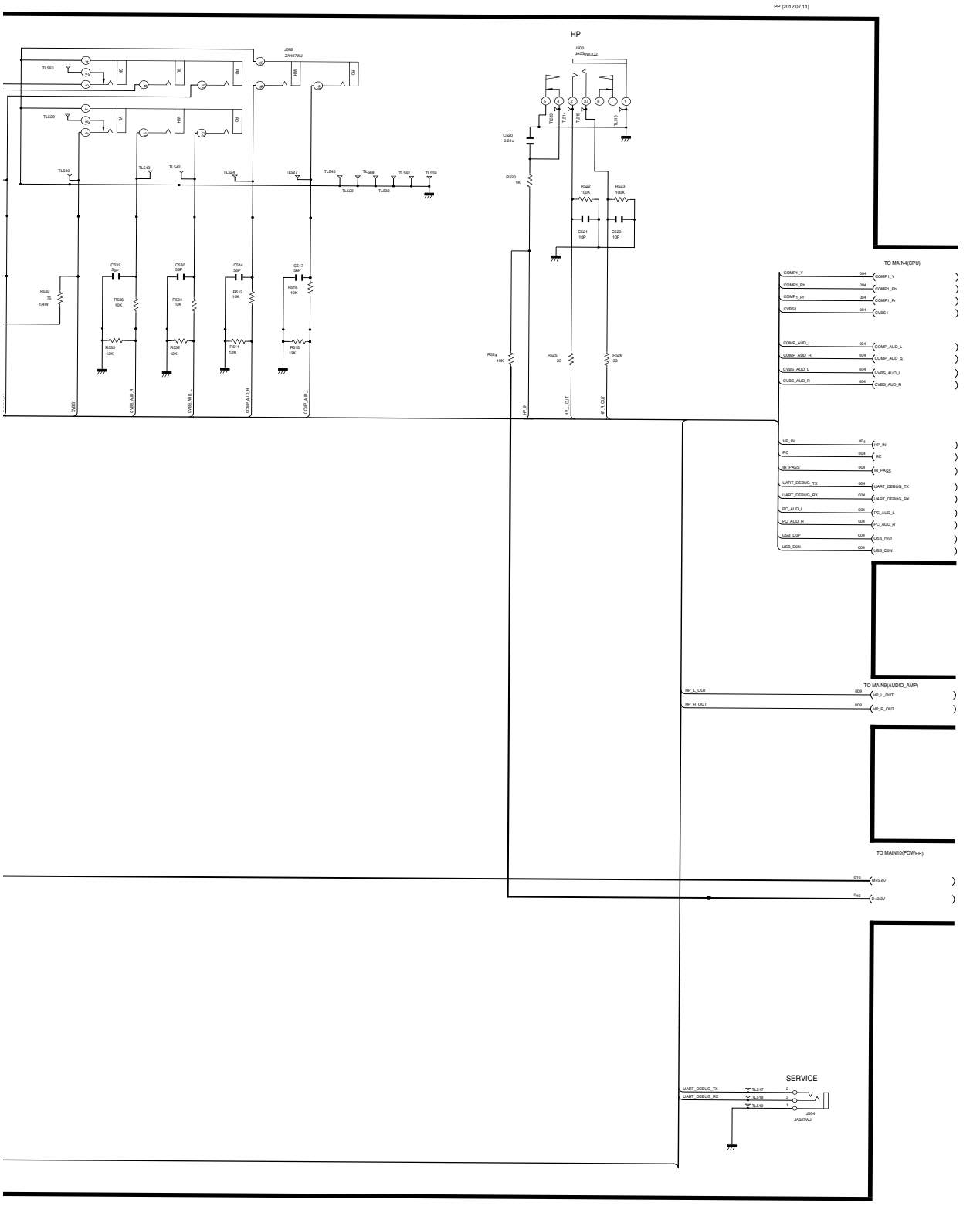


10	11	12	13	14	15	16	17	18	19

LC-32LE250M

MAIN2(TERMINAL)

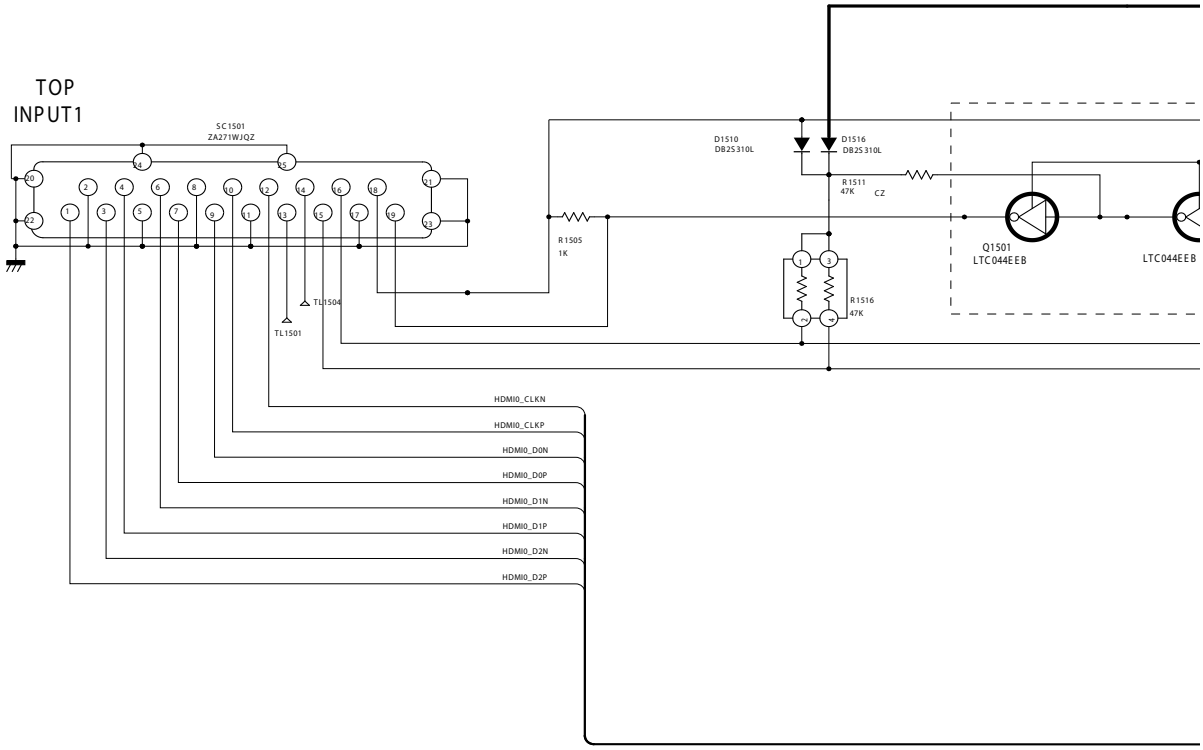




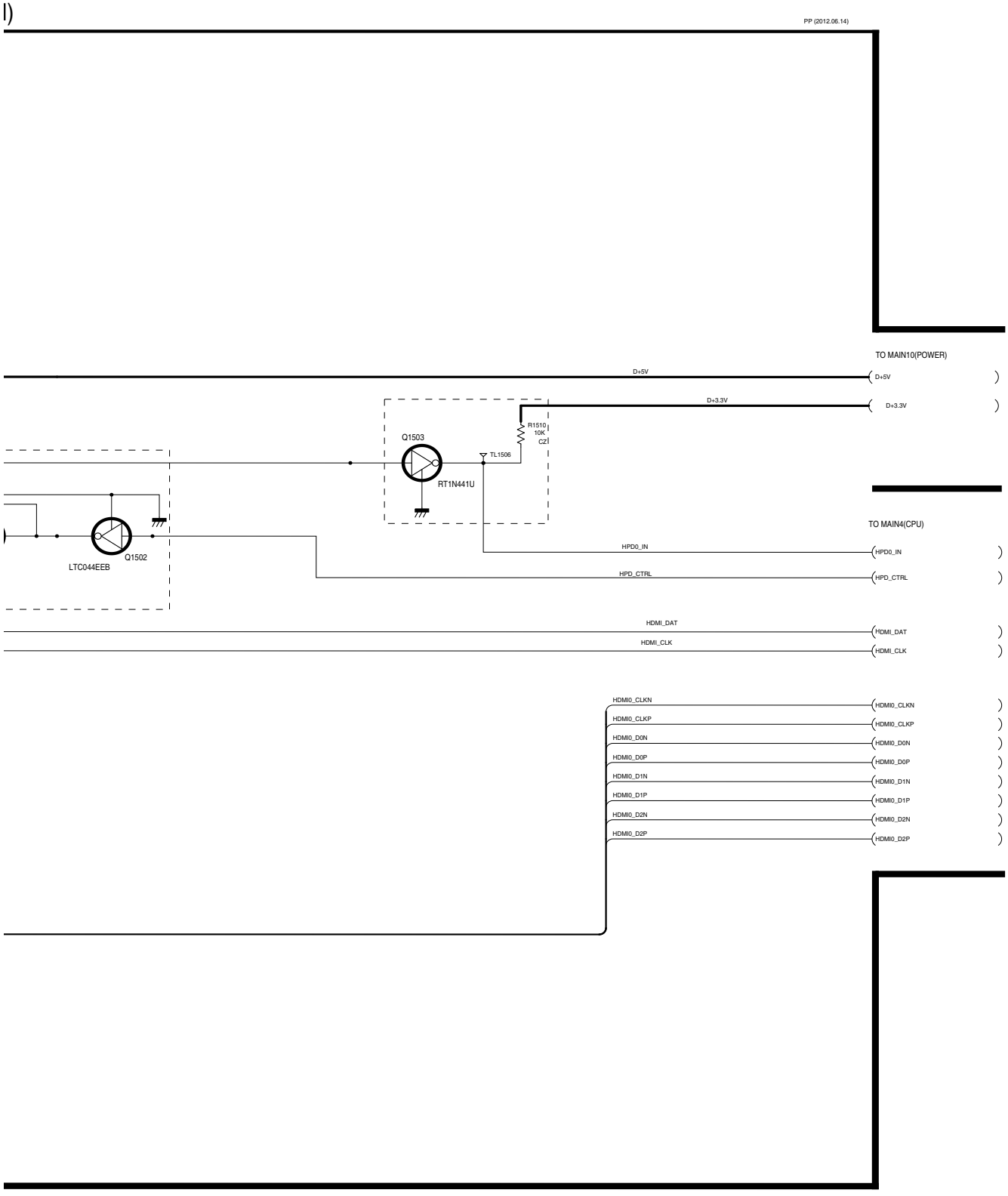
11	12	13	14	15	16	17	18	19

LC-32LE250M

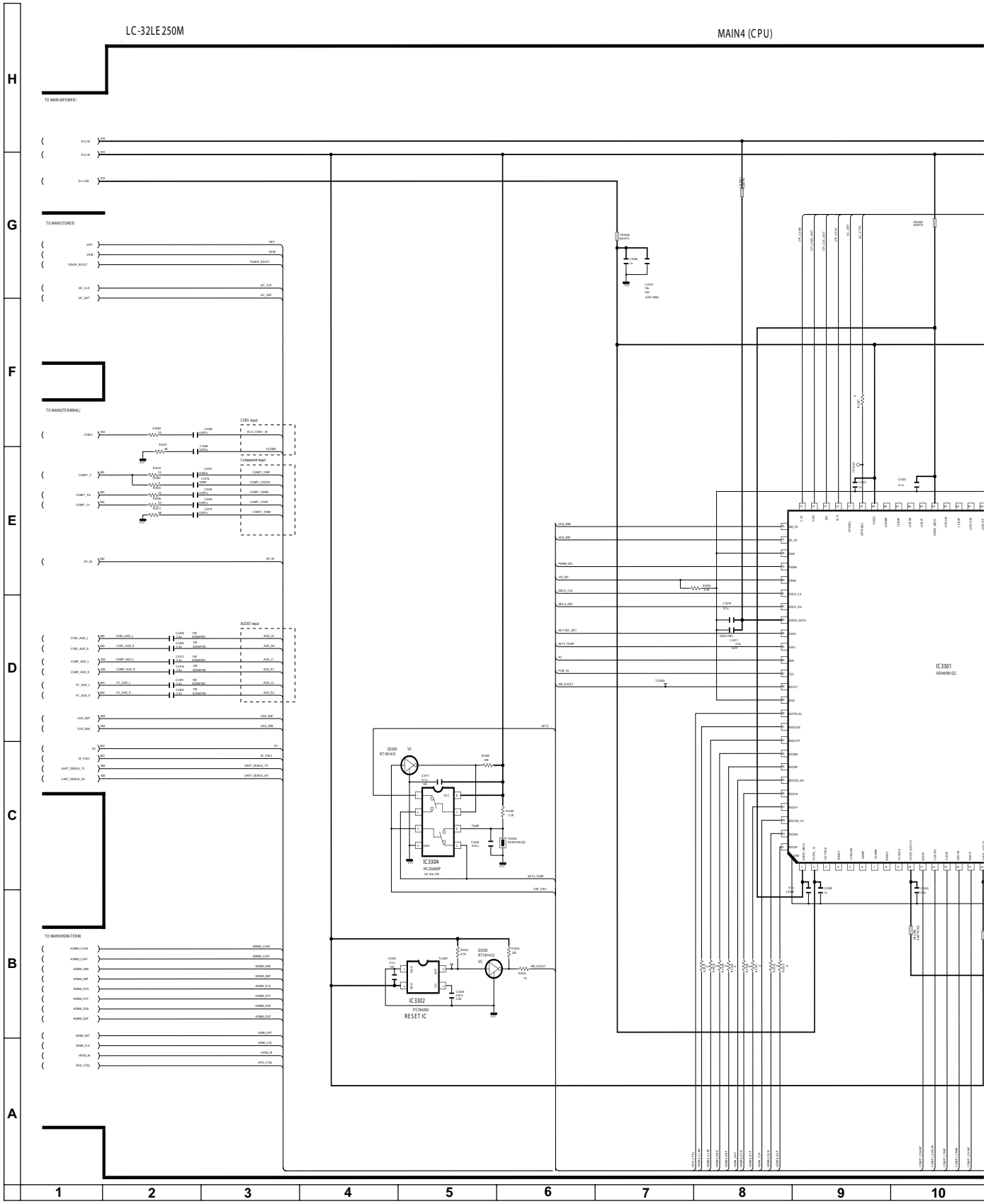
MAIN3 (HDMI-TERM)

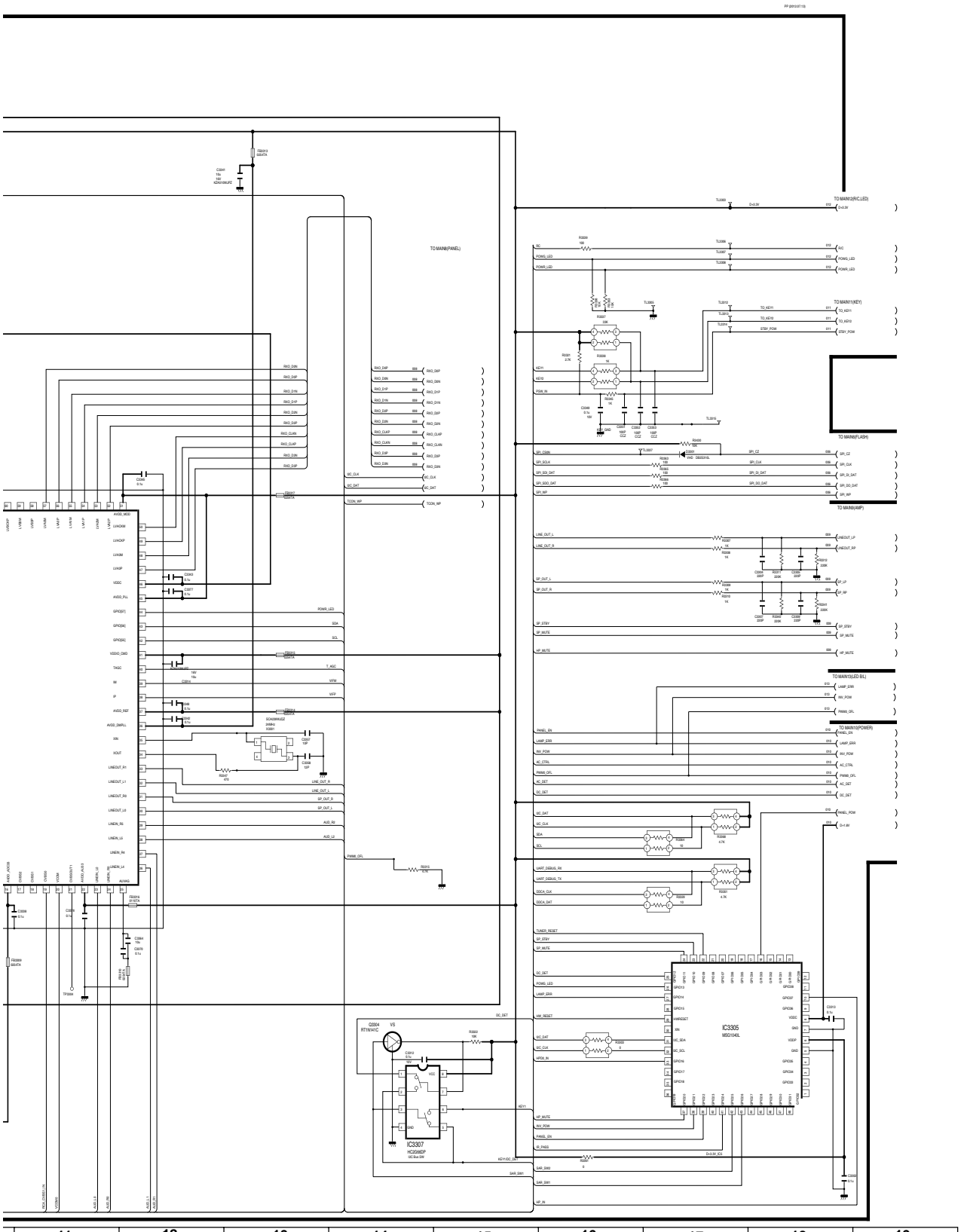


I)



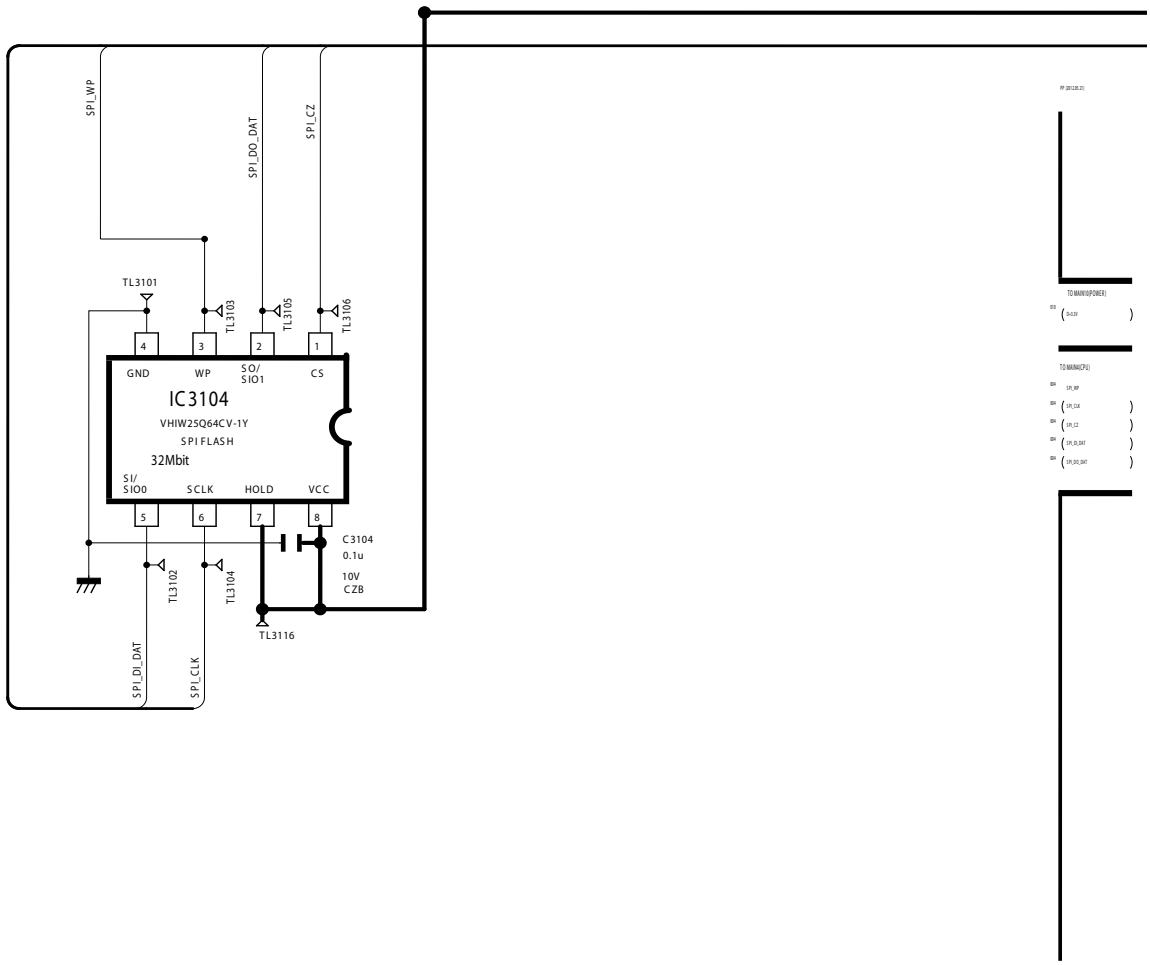
10	11	12	13	14	15	16	17	18	19


LC-32LE250M
MAIN4 (CPU)
TO MAIN10(POWER)
TO MAIN1(TUNER)
TO MAIN2(TERMINAL)
TO MAIN3(HDMI-TERM)
CVBS input
Component input
AUDIO input
IC 3304
HC164052P
IC 3302
RESET IC
IC 3301

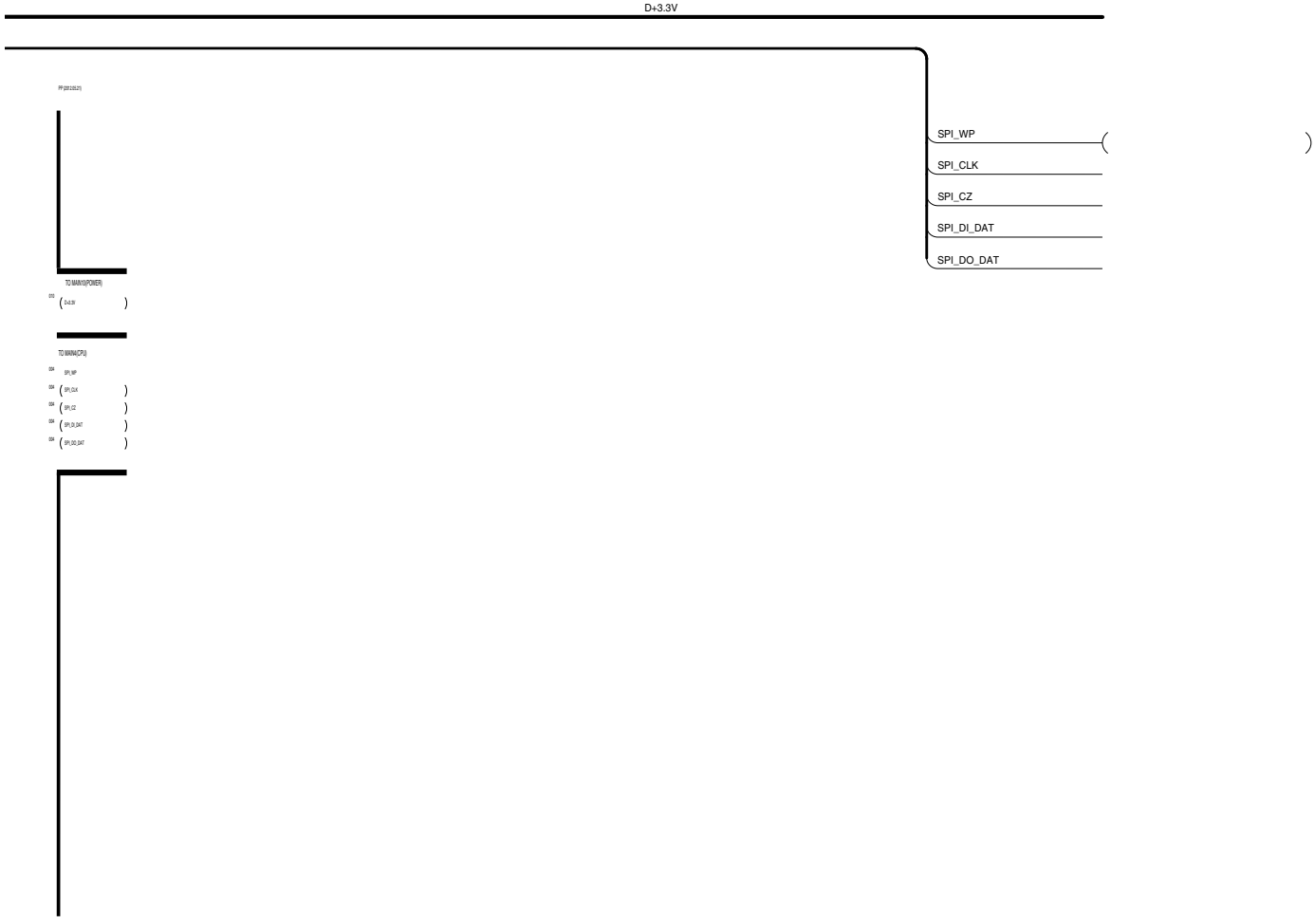

TO MAIN9(PANEL)
TO MAIN12(IRC,LED)
TO MAIN11(KEY)
TO MAIN8(FLASH)
TO MAIN6(AMP)
TO MAIN15(LED B/L)
TO MAIN10(POWER)
IC3305
MSD1040L
IC3307
HCS08EP
I2C Bus SW
Q3004
RT1N141C
11
12
13
14
15
16
17
18
19

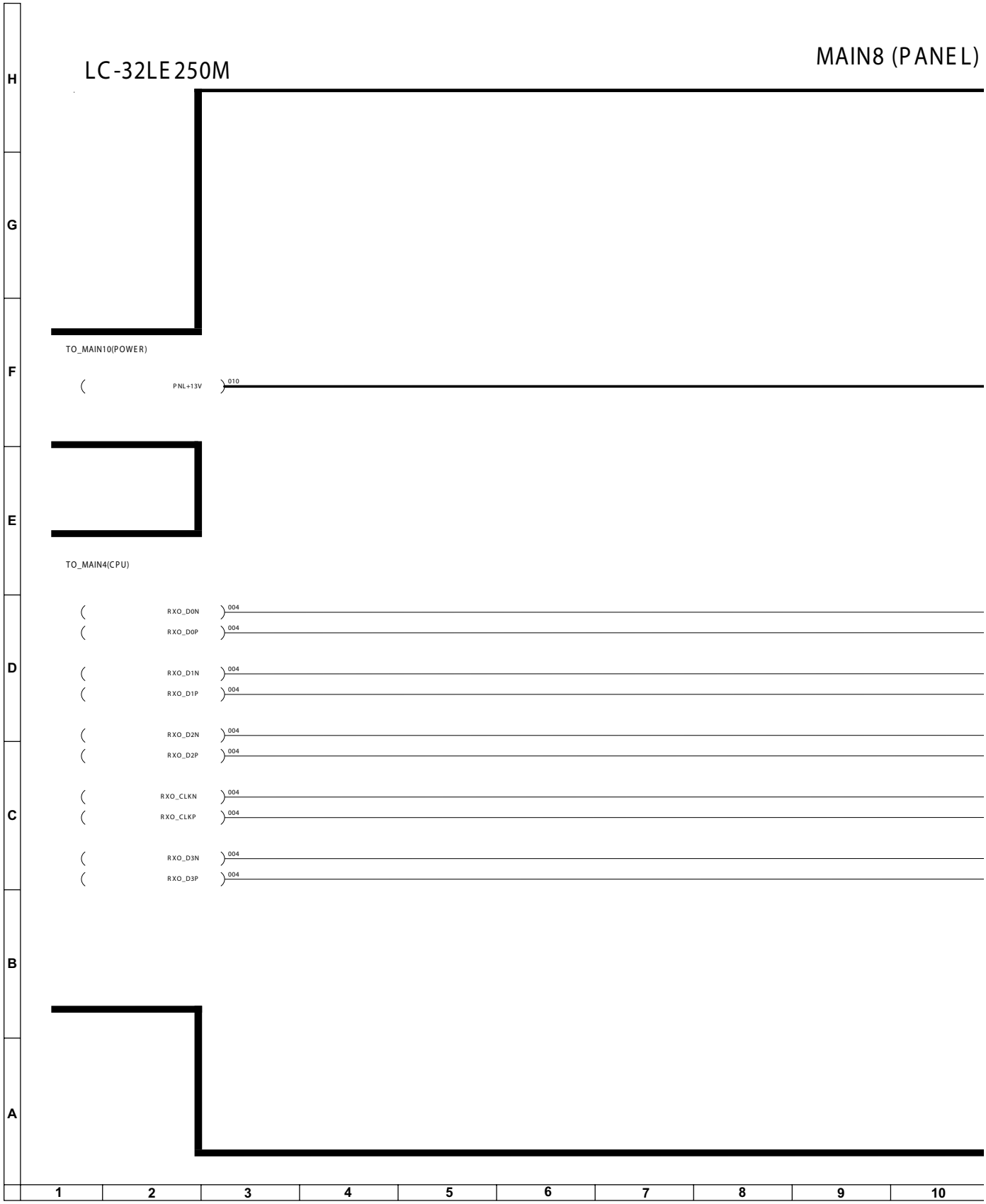
LC-32LE250M

MAIN6 (FLASH)

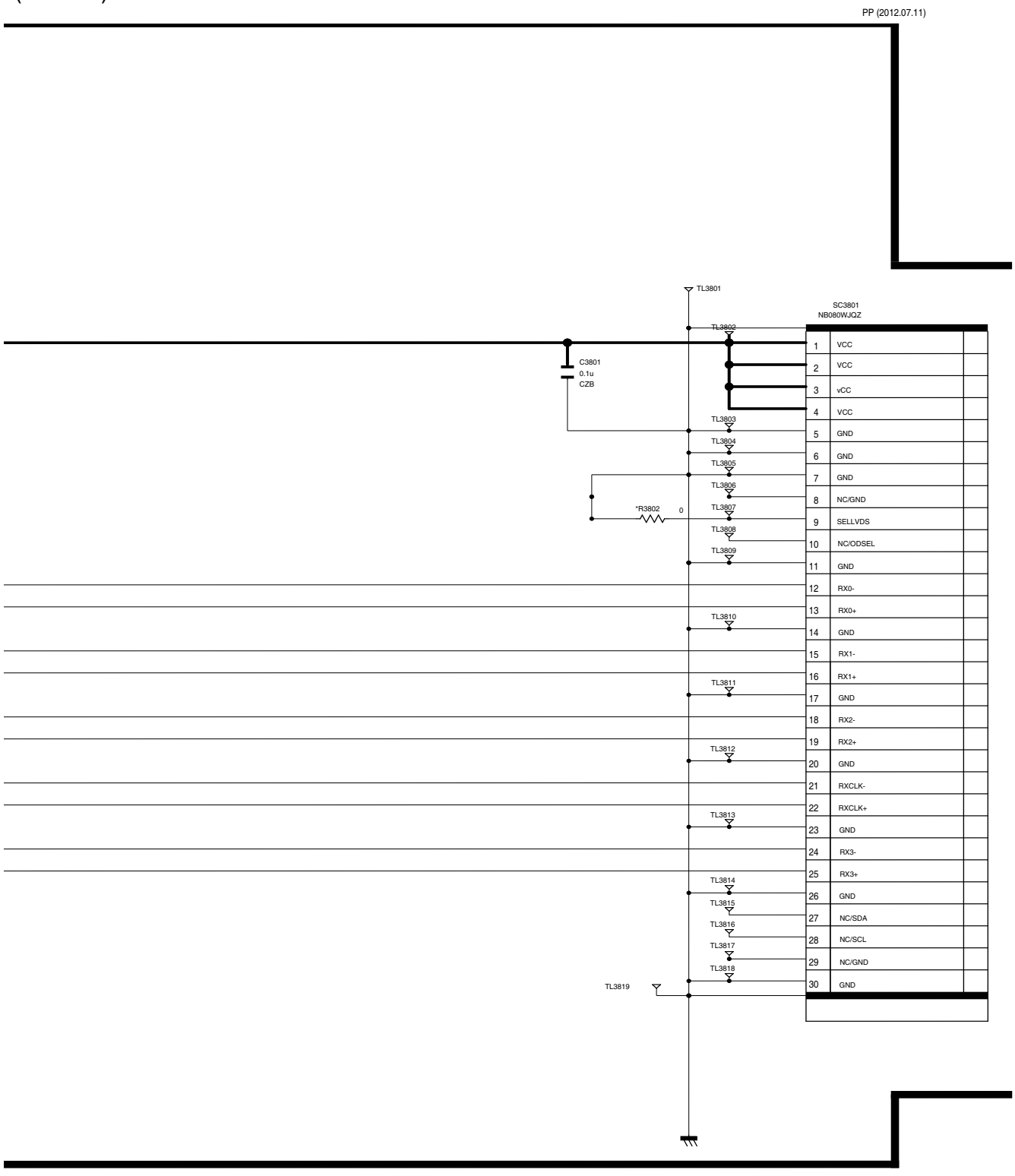


(FLASH)

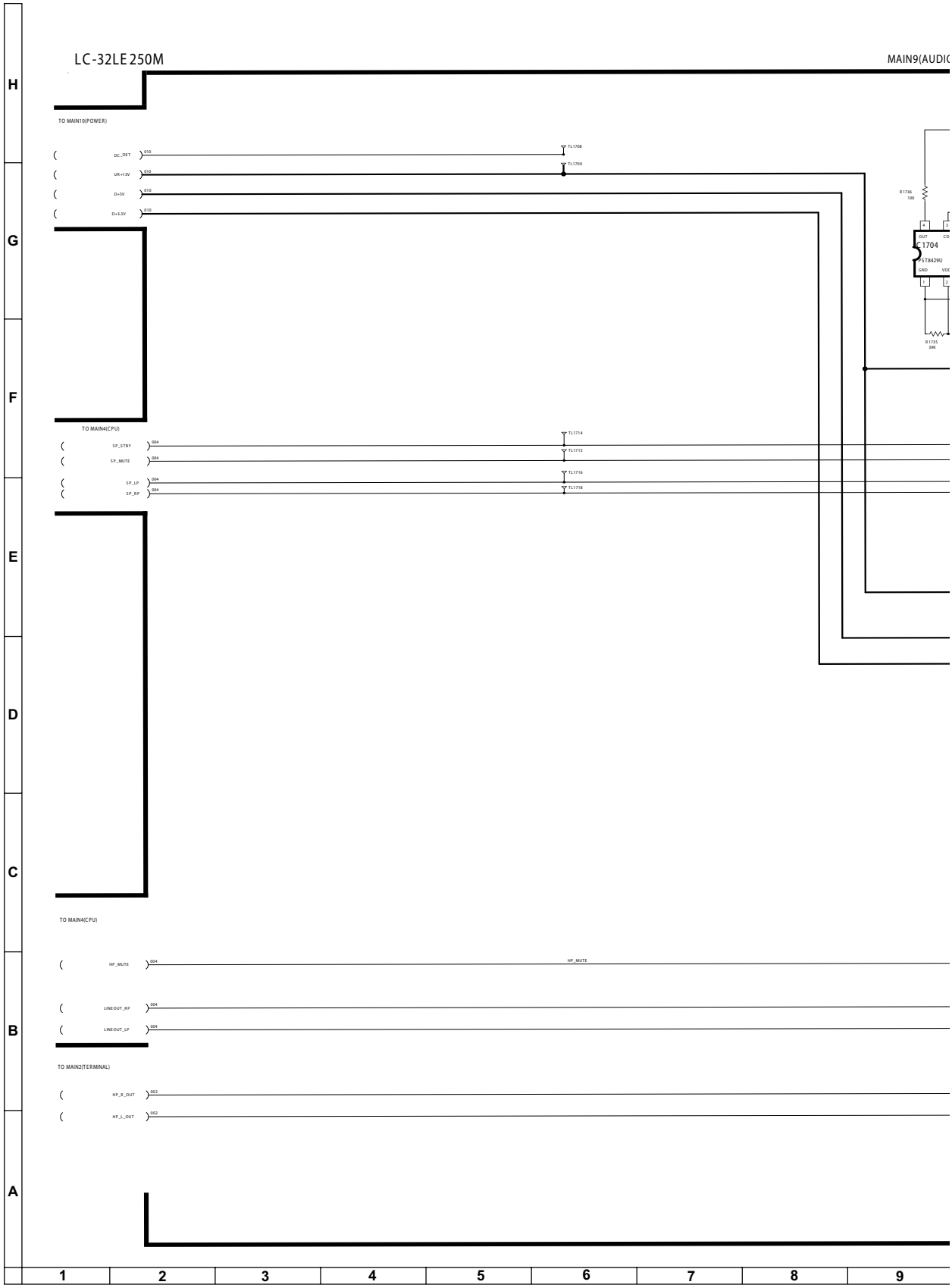

D+3.3V
SPI_WP
SPI_CLK
SPI_CZ
SPI_DI_DAT
SPI_DO_DAT
TO MAIN(POWER)
D+3.3V
TO MAIN(CPU)
SPI_WP
SPI_CLK
SPI_CZ
SPI_DI_DAT
SPI_DO_DAT

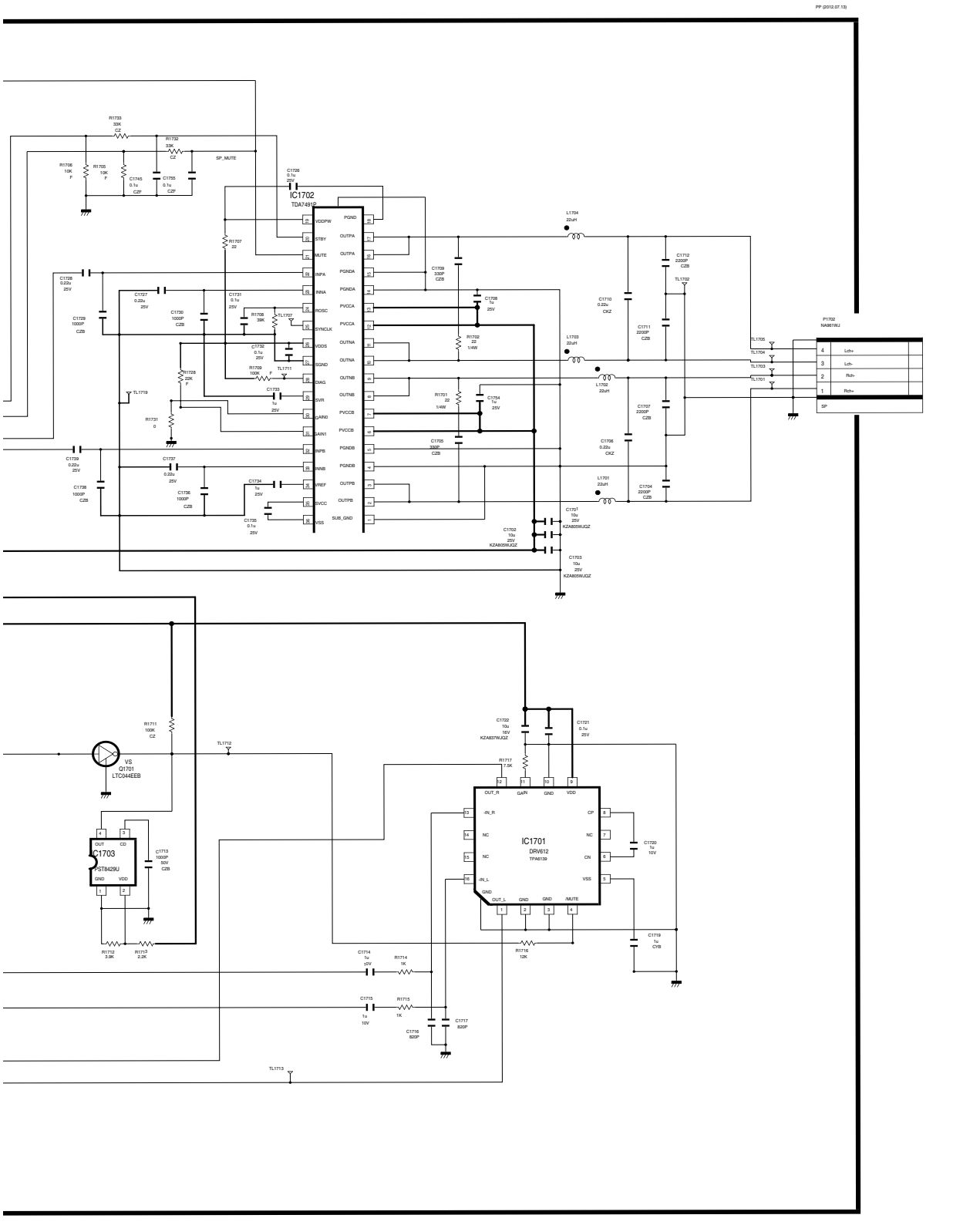

LC-32LE250M
MAIN8 (PANEL)
TO_MAIN10(POWER)
PNL+13V
010
TO_MAIN4(CPU)
RXO_D0N
RXO_D0P
RXO_D1N
RXO_D1P
RXO_D2N
RXO_D2P
RXO_CLKN
RXO_CLKP
RXO_D3N
RXO_D3P
004
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10

(PANEL)

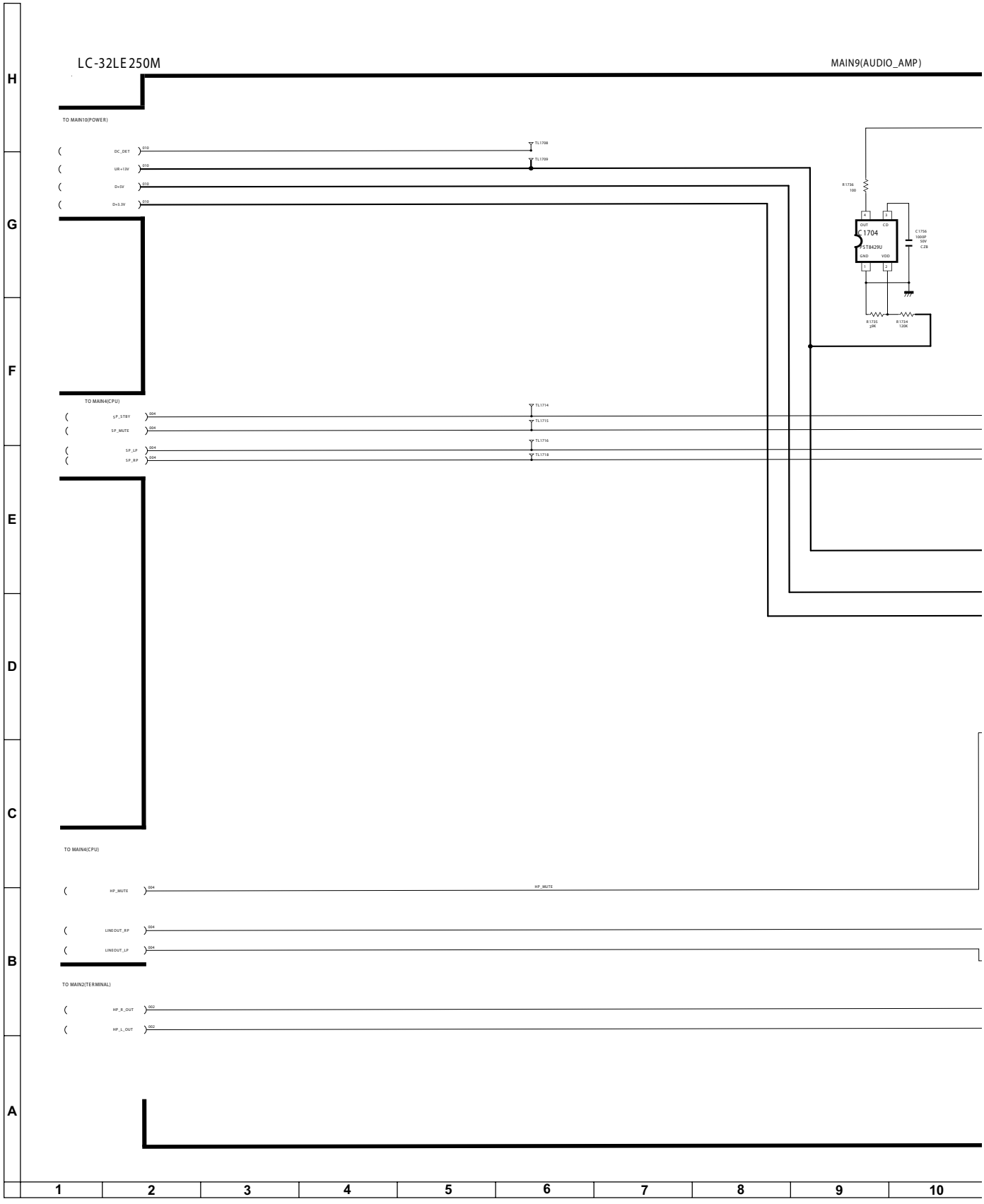


10	11	12	13	14	15	16	17	18	19


LC-32LE250M
MAIN9(AUDIO
TO MAIN10(POWER)
DC_DET
UR+13V
D+5V
D+3.3V
TL1708
TL1709
R1736
100
IC1704
GT8429U
GND
R1735
39K
TO MAIN4(CPU)
SP_STBY
SP_MUTE
SP_LP
SP_RP
TL1714
TL1715
TL1716
TL1718
TO MAIN4(CPU)
HP_MUTE
LINEOUT_RP
LINEOUT_LP
TO MAIN2(TERMINAL)
HP_R_OUT
HP_L_OUT
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9

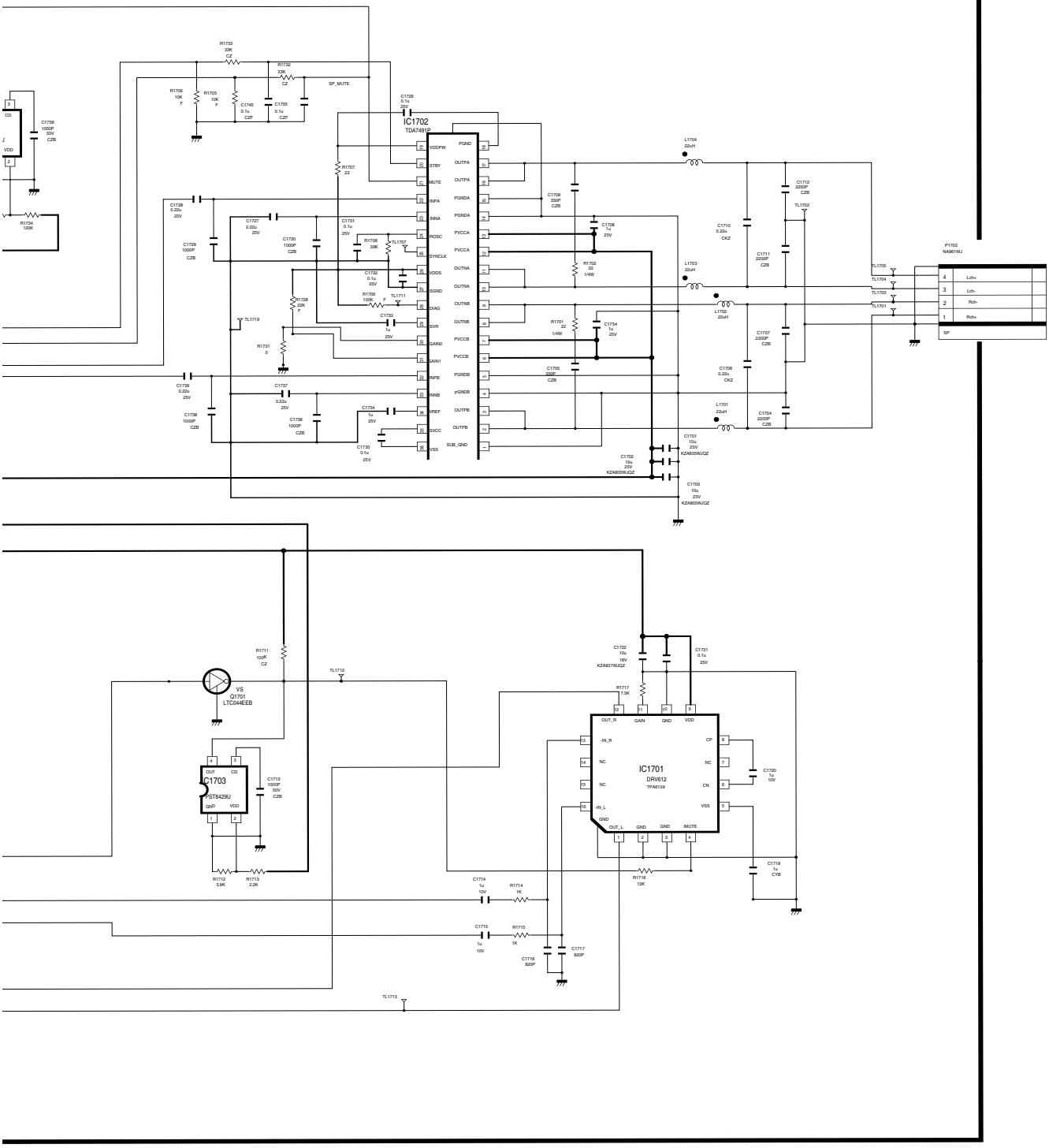


	11	12	13	14	15	16	17	18	19


LC-32LE250M
MAIN9(AUDIO_AMP)
TO MAIN10(POWER)
DC_DET
UR+13V
D+5V
D+3.3V
TL1708
TL1709
R1736
100
C1704
ST8429U
C1756
1000P
50V
CZB
R1731
10K
R1734
120K
TO MAIN4(CPU)
SP_STBY
SP_MUTE
SP_LP
SP_RP
TL1714
TL1715
TL1716
TL1718
TO MAIN4(CPU)
HP_MUTE
LINEOUT_RP
LINEOUT_LP
TO MAIN2(TERMINAL)
HP_R_OUT
HP_L_OUT
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10

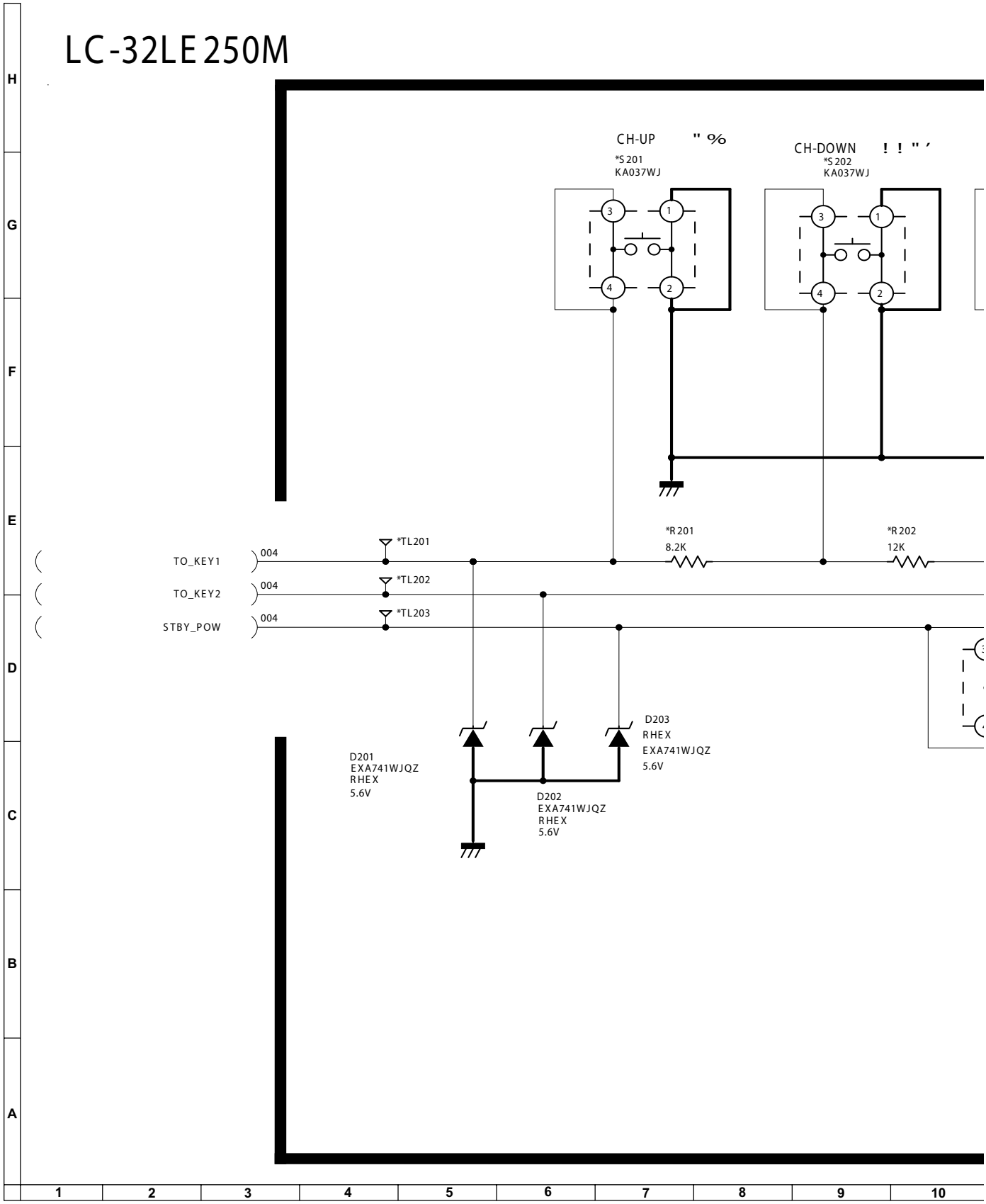
)IO_AMP)

PP (2012.07.13)



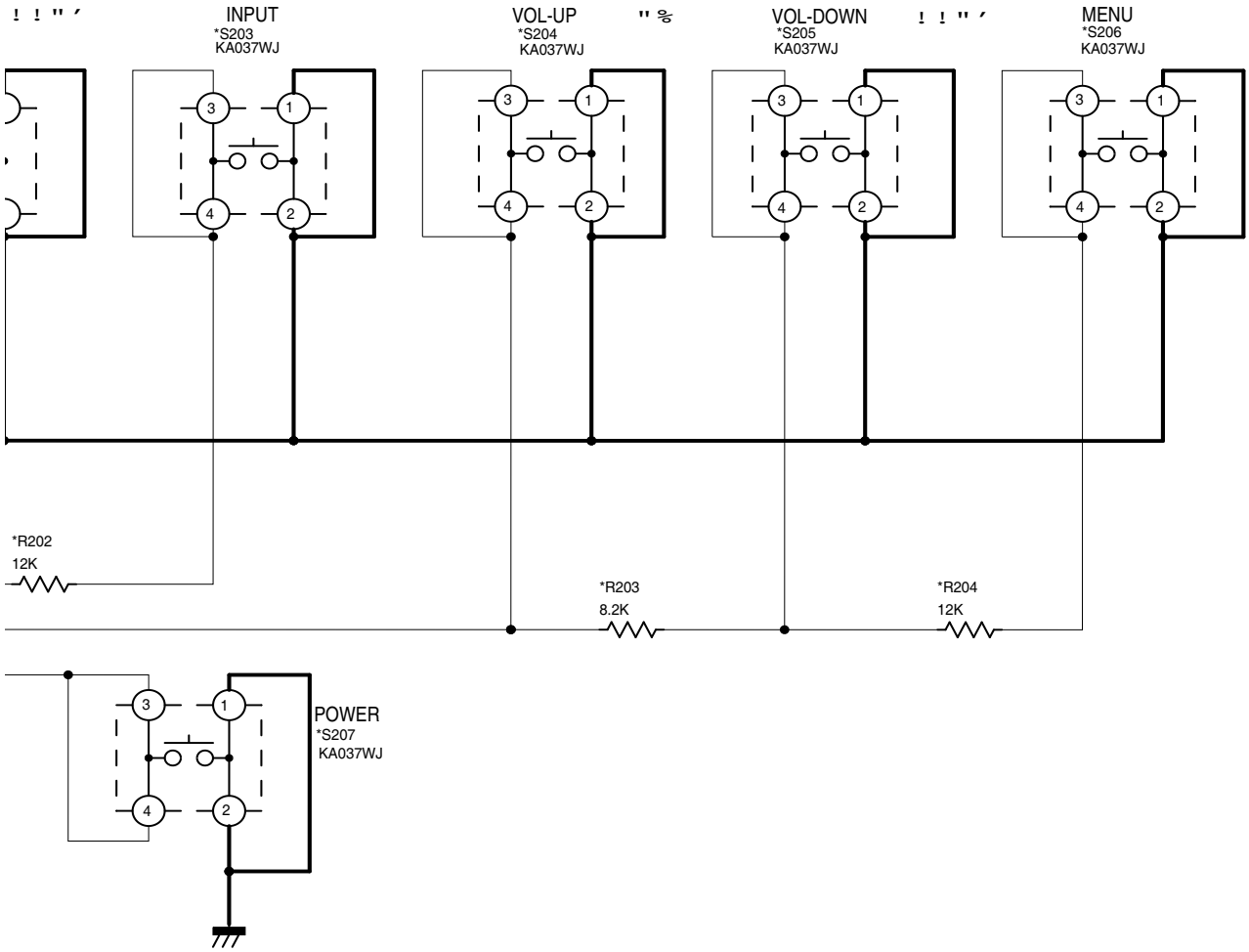
	10	11	12	13	14	15	16	17	18	19

LC-32LE250M

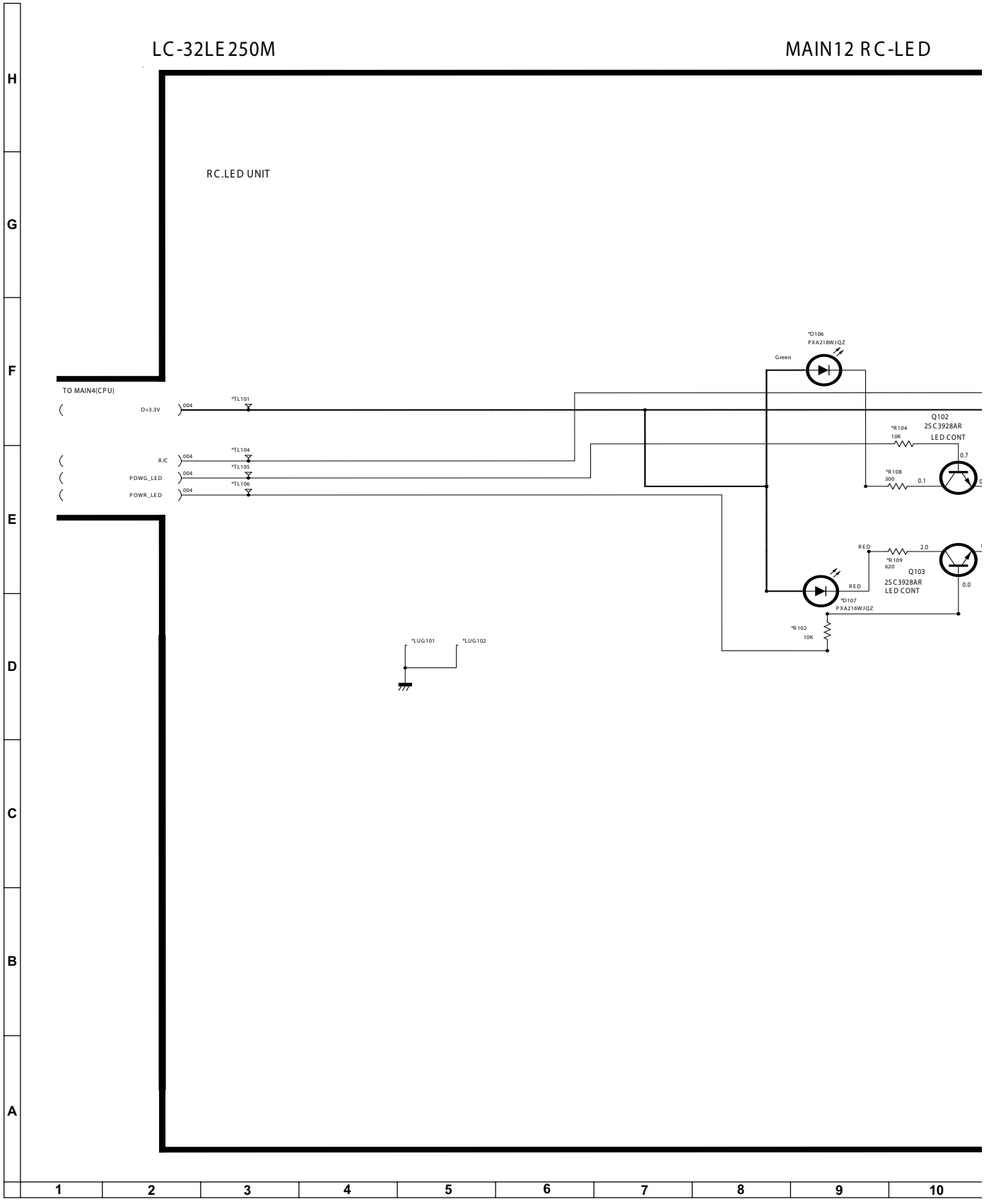

CH-UP
*S201
KA037WJ
CH-DOWN
*S202
KA037WJ
*R201
8.2K
*R202
12K
TO_KEY1
TO_KEY2
STBY_POW
004
004
004
*TL201
*TL202
*TL203
D201
EXA741WJQZ
RHEX
5.6V
D202
EXA741WJQZ
RHEX
5.6V
D203
RHEX
EXA741WJQZ
5.6V

KEY

PP (2012.07.13)

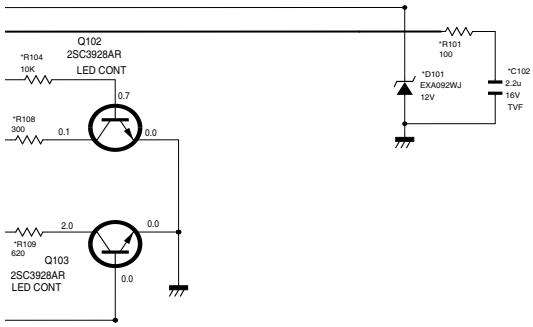


	10	11	12	13	14	15	16	17	18	19

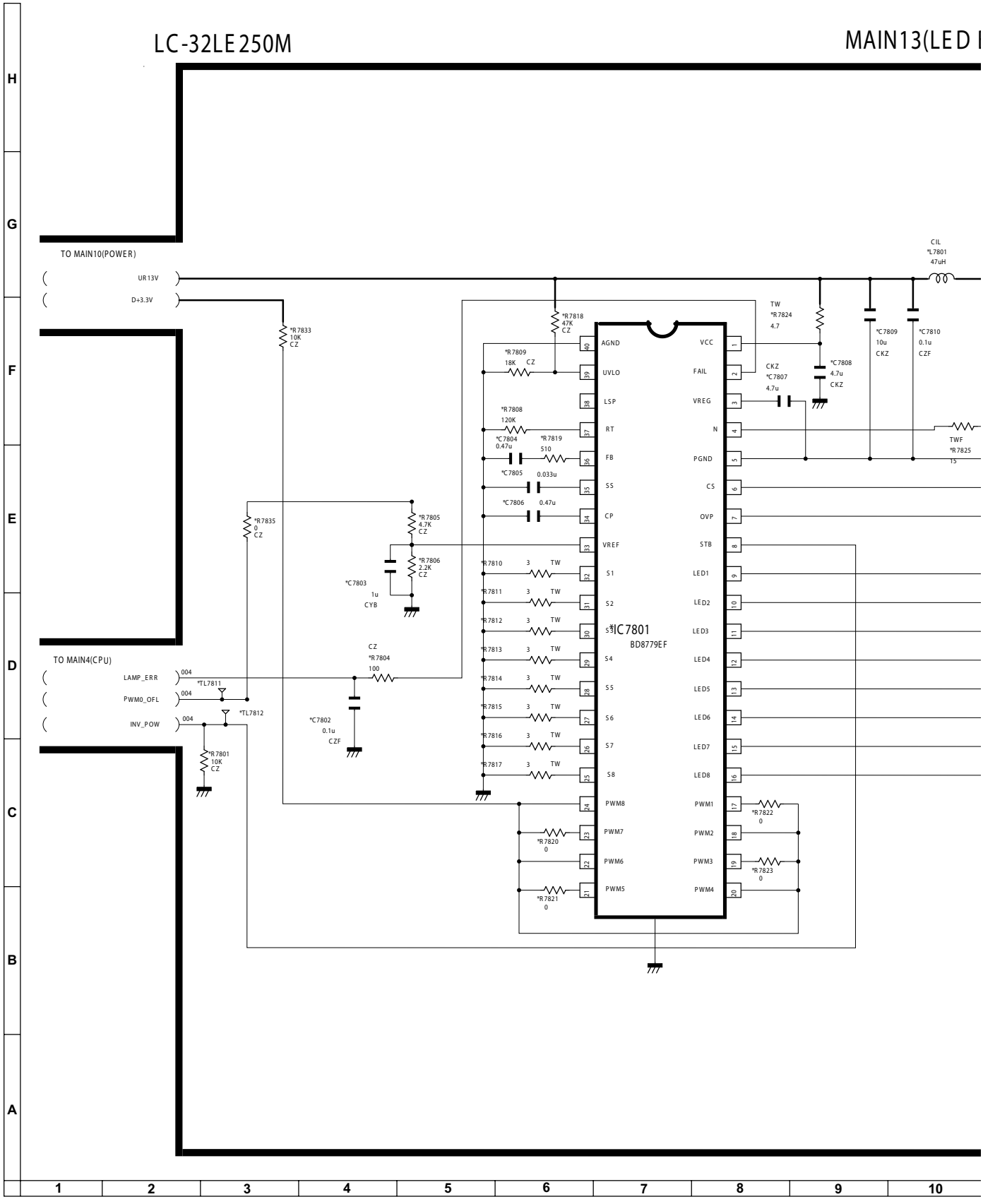

LC-32LE250M
MAIN12 RC-LED
RC.LED UNIT
TO MAIN4(CPU)
D+3.3V
R/C
POWG_LED
POWR_LED
004
*TL101
*TL104
*TL105
*TL106
*D106
PXA218WJQZ
Green
Q102
2SC3928AR
LED CONT
*R104
10K
*R108
300
0.1
0.7
RED
2.0
*R109
620
Q103
2SC3928AR
LED CONT
0.0
*D107
PXA216WJQZ
*R102
10K
*LUG101
*LUG102
A
B
C
D
E
F
G
H
1
2
3
4
5
6
7
8
9
10

C-LED

PP (2012.05.21)

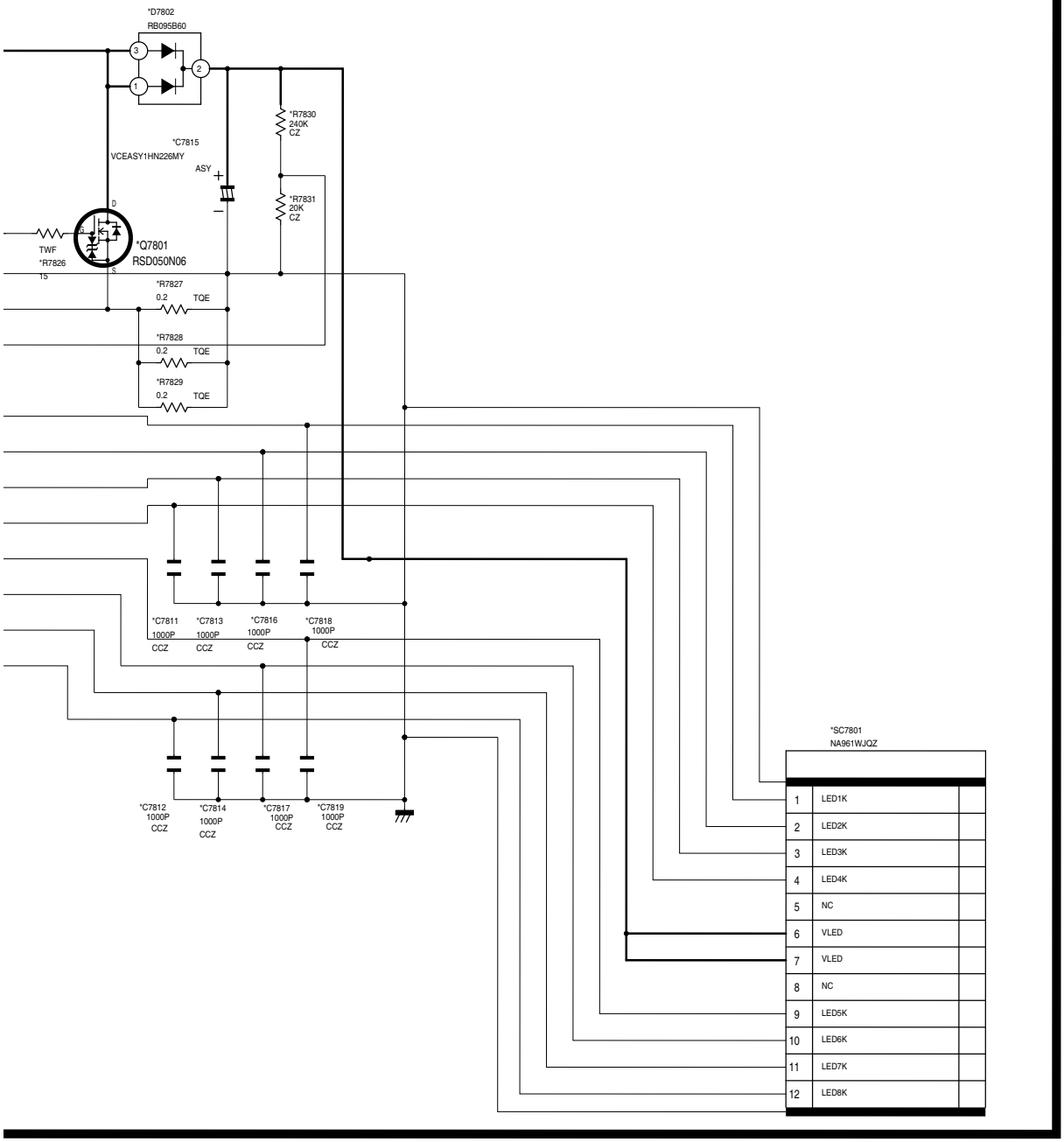


	10	11	12	13	14	15	16	17	18	19


LC-32LE250M
MAIN13(LED I
TO MAIN10(POWER)
UR13V
D+3.3V
TO MAIN4(CPU)
LAMP_ERR
PWM0_OFL
INV_POW
*IC7801
BD8779EF
AGND
UVLO
LSP
RT
FB
SS
CP
VREF
S1
S2
S3
S4
S5
S6
S7
S8
PWM8
PWM7
PWM6
PWM5
VCC
FAIL
VREG
N
PGND
CS
OVP
STB
LED1
LED2
LED3
LED4
LED5
LED6
LED7
LED8
PWM1
PWM2
PWM3
PWM4
*R7818 47K CZ
*R7809 18K CZ
*R7808 120K
*C7804 0.47u
*R7819 510
*C7805 0.033u
*C7806 0.47u
*R7805 4.7K CZ
*R7806 2.2K CZ
*C7803 1u CYB
*R7833 10K CZ
*R7835 0 CZ
CZ *R7804 100
*C7802 0.1u CZF
*R7801 10K CZ
*TL7811
*TL7812
*R7810 3 TW
*R7811 3 TW
*R7812 3 TW
*R7813 3 TW
*R7814 3 TW
*R7815 3 TW
*R7816 3 TW
*R7817 3 TW
*R7820 0
*R7821 0
*R7822 0
*R7823 0
TW *R7824 4.7
CKZ *C7807 4.7u
*C7808 4.7u CKZ
*C7809 10u CKZ
*C7810 0.1u CZF
CIL *L7801 47uH
TWF *R7825 15

B/L)

PP (2012.07.13)



	11	12	13	14	15	16	17	18	19

1st Addition

SHARP PARTS GUIDE

No. SZ12M1032LE250M

LCD COLOUR TELEVISION

MODEL LC-32LE250M

CONTENTS

[1] PRINTED WIRING BOARD ASSEMBLIES

[2] LCD PANEL

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[4] CABINET AND MECHNICAL PARTS

[5] LCD PANEL

[6] SUPPLIED ACCESSORIES

[7] PACKING PARTS (NOT REPLACE-MENT ITEM)

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[1] PRINTED WIRING BOARD ASSEMBLIES					
	DKEYMG247FM01	BM		V	MAIN UNIT (ASIA)
	DKEYMG247FM02	BM		V	MAIN UNIT (SPC)
[2] LCD PANEL					
	R1LK315T3HB60W	CK		V	LCD PANEL 32"
[3] MAIN UNIT (DKEYMG247FM01/ 02)					
P1702	QPLGNA961WJZZY	AD			-
P9601	QPLGNB098WJZZY	AD			-
P101	QPLGNB150WJZZY	AC			-
SC3801	QSOCNB080WJQZY	AE		V	LVDS HEADER
SC1501	QSOCZA347WJQZY	AE			-
S201	QSW-KA037WJZZY	AC		V	Switch
S202	QSW-KA037WJZZY	AC		V	Switch
S203	QSW-KA037WJZZY	AC		V	Switch
S204	QSW-KA037WJZZY	AC		V	Switch
S205	QSW-KA037WJZZY	AC		V	Switch
S206	QSW-KA037WJZZY	AC		V	Switch
S207	QSW-KA037WJZZY	AC		V	Switch
FB3316	RBLN-0110TAZZY	AB		V	Ferrite Bead
FB1101	RBLN-0253TAZZY	AA		V	Ferrite Bead
FB3301	RBLN-0254TAZZY	AB		V	Ferrite Bead
FB3303	RBLN-0254TAZZY	AB		V	Ferrite Bead
FB3307	RBLN-0254TAZZY	AB		V	Ferrite Bead
FB3309	RBLN-0254TAZZY	AB		V	Ferrite Bead
FB3310	RBLN-0254TAZZY	AB		V	Ferrite Bead
FB3313	RBLN-0254TAZZY	AB		V	Ferrite Bead
FB3314	RBLN-0254TAZZY	AB		V	Ferrite Bead
FB3315	RBLN-0254TAZZY	AB		V	Ferrite Bead
FB3317	RBLN-0254TAZZY	AB		V	Ferrite Bead
FB3306	RBLN-A367WJQZY	AB		V	Ferrite Bead
C1708	RC-KZA114WJZZY	AB		V	Capacitor
C1733	RC-KZA114WJZZY	AB		V	Capacitor
C1734	RC-KZA114WJZZY	AB		V	Capacitor
C1754	RC-KZA114WJZZY	AB		V	Capacitor
C3318	RC-KZA176WJZZY	AC		V	Capacitor
C3364	RC-KZA176WJZZY	AC		V	Capacitor
C9628	RC-KZA176WJZZY	AC		V	Capacitor
C1105	RC-KZA510WJPZY	AB		V	Capacitor
C1722	RC-KZA510WJPZY	AB		V	Capacitor
C3314	RC-KZA510WJPZY	AB		V	Capacitor
C3341	RC-KZA510WJPZY	AB		V	Capacitor
C9501	RC-KZA510WJPZY	AB		V	Capacitor
C9502	RC-KZA510WJPZY	AB		V	Capacitor
C9606	RC-KZA510WJPZY	AB		V	Capacitor
C9616	RC-KZA510WJPZY	AB		V	Capacitor
C9617	RC-KZA510WJPZY	AB		V	Capacitor
C9632	RC-KZA510WJPZY	AB		V	Capacitor
C9633	RC-KZA510WJPZY	AB		V	Capacitor
C3317	RC-KZA513WJZZY	AB		V	Capacitor
C9618	RC-KZA620WJZZY	AA		V	Capacitor
C9629	RC-KZA620WJZZY	AA		V	Capacitor
C3301	RC-KZA691WJZZY	AB		V	Capacitor
C3303	RC-KZA691WJZZY	AB		V	Capacitor
C3315	RC-KZA691WJZZY	AB		V	Capacitor
C3316	RC-KZA691WJZZY	AB		V	Capacitor
C3334	RC-KZA691WJZZY	AB		V	Capacitor
C3360	RC-KZA691WJZZY	AB		V	Capacitor
C3363	RC-KZA691WJZZY	AB		V	Capacitor
C1706	RC-KZA709WJQZY	AA		V	Capacitor 0.22 25V Ceramic
C1710	RC-KZA709WJQZY	AA		V	Capacitor 0.22 25V Ceramic
C1701	RC-KZA805WJQZY	AB		V	Capacitor
C1702	RC-KZA805WJQZY	AB		V	Capacitor
C1703	RC-KZA805WJQZY	AB		V	Capacitor
C9608	RC-KZA805WJQZY	AB		V	Capacitor
C9609	RC-KZA805WJQZY	AB		V	Capacitor
C9610	RC-KZA805WJQZY	AB		V	Capacitor
C9627	RC-KZA805WJQZY	AB		V	Capacitor
C9603	RC-KZA931WJQZY	AB		V	Capacitor
C9604	RC-KZA931WJQZY	AB		V	Capacitor
C9622	RC-KZA931WJQZY	AB		V	Capacitor
C9625	RC-KZA931WJQZY	AB		V	Capacitor
C9626	RC-KZA931WJQZY	AB		V	Capacitor
L9602	RCILPB014WJQZY	AC		V	Coil
L9603	RCILPB014WJQZY	AC		V	Coil
L1701	RCILPB337WJQZY	AD		V	Coil
L1702	RCILPB337WJQZY	AD		V	Coil
L1703	RCILPB337WJQZY	AD		V	Coil
L1704	RCILPB337WJQZY	AD		V	Coil
L1103	RCILQA007WJQZY	AB		V	Coil
X3301	RCRSCA239WJQZY	AD		V	Crystal
D201	RH-EXA741WJQZY	AB		V	Diode
D202	RH-EXA741WJQZY	AB		V	Diode
D203	RH-EXA741WJQZY	AB		V	Diode
TH3301	RH-HXA057WJQZY	AA		V	Thermistor

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[3] MAIN UNIT (DKEYMG247FM01/ 02)					
IC3301	RH-IXD465WJQZQ	AY		V	IC
C1104	VCCCCY1HH220JY	AA		V	Capacitor 22p 50V Ceramic
C1108	VCCCCY1HH220JY	AA		V	Capacitor 22p 50V Ceramic
C3357	VCCCCZ1HH100DY	AB		V	Capacitor
C3351	VCCCCZ1HH101JY	AB		V	Capacitor 100p 50V Ceramic
C3352	VCCCCZ1HH101JY	AB		V	Capacitor 100p 50V Ceramic
C3353	VCCCCZ1HH101JY	AB		V	Capacitor 100p 50V Ceramic
C3389	VCCCCZ1HH101JY	AB		V	Capacitor 100p 50V Ceramic
C3358	VCCCCZ1HH120JY	AB		V	Capacitor 12p 50V Ceramic
C1102	VCCCCZ1HH181JY	AB		V	Capacitor 180p 50V Ceramic
C1714	VCKYCY1AB105KY	AB		V	Capacitor 1 10V Ceramic
C1715	VCKYCY1AB105KY	AB		V	Capacitor 1 10V Ceramic
C1719	VCKYCY1AB105KY	AB		V	Capacitor 1 10V Ceramic
C1720	VCKYCY1AB105KY	AB		V	Capacitor 1 10V Ceramic
C3306	VCKYCY1AB105KY	AB		V	Capacitor 1 10V Ceramic
C3328	VCKYCY1AB105KY	AB		V	Capacitor 1 10V Ceramic
C3331	VCKYCY1AB105KY	AB		V	Capacitor 1 10V Ceramic
C1120	VCKYCY1CB104KY	AB		V	Capacitor 0.1 16V Ceramic
C1121	VCKYCY1CB104KY	AB		V	Capacitor 0.1 16V Ceramic
C1122	VCKYCY1CB104KY	AB		V	Capacitor 0.1 16V Ceramic
C1131	VCKYCY1CB104KY	AB		V	Capacitor 0.1 16V Ceramic
C1132	VCKYCY1CB104KY	AB		V	Capacitor 0.1 16V Ceramic
C3104	VCKYCZ1AB104KY	AB		V	Capacitor 0.1 16V Ceramic
C3302	VCKYCZ1AB104KY	AB		V	Capacitor 0.1 16V Ceramic
C3311	VCKYCZ1AB104KY	AB		V	Capacitor 0.1 16V Ceramic
C3313	VCKYCZ1AB104KY	AB		V	Capacitor 0.1 16V Ceramic
C3329	VCKYCZ1AB104KY	AB		V	Capacitor 0.1 16V Ceramic
C3335	VCKYCZ1AB104KY	AB		V	Capacitor 0.1 16V Ceramic
C3338	VCKYCZ1AB104KY	AB		V	Capacitor 0.1 16V Ceramic
C3342	VCKYCZ1AB104KY	AB		V	Capacitor 0.1 16V Ceramic
C3343	VCKYCZ1AB104KY	AB		V	Capacitor 0.1 16V Ceramic
C3345	VCKYCZ1AB104KY	AB		V	Capacitor 0.1 16V Ceramic
C3348	VCKYCZ1AB104KY	AB		V	Capacitor 0.1 16V Ceramic
C3370	VCKYCZ1AB104KY	AB		V	Capacitor 0.1 16V Ceramic
C3377	VCKYCZ1AB104KY	AB		V	Capacitor 0.1 16V Ceramic
C3378	VCKYCZ1AB104KY	AB		V	Capacitor 0.1 16V Ceramic
C3379	VCKYCZ1AB104KY	AB		V	Capacitor 0.1 16V Ceramic
C3380	VCKYCZ1AB104KY	AB		V	Capacitor 0.1 16V Ceramic
C3801	VCKYCZ1AB104KY	AB		V	Capacitor 0.1 16V Ceramic
C9503	VCKYCZ1AB104KY	AB		V	Capacitor 0.1 16V Ceramic
C9642	VCKYCZ1AB104KY	AB		V	Capacitor 0.1 16V Ceramic
C3308	VCKYCZ1AB473KY	AB		V	Capacitor 0.047 10V Ceramic
C3355	VCKYCZ1AB473KY	AB		V	Capacitor 0.047 10V Ceramic
C3356	VCKYCZ1AB473KY	AB		V	Capacitor 0.047 10V Ceramic
C3359	VCKYCZ1AB473KY	AB		V	Capacitor 0.047 10V Ceramic
C3366	VCKYCZ1AB473KY	AB		V	Capacitor 0.047 10V Ceramic
C3374	VCKYCZ1AB473KY	AB		V	Capacitor 0.047 10V Ceramic
C9612	VCKYCZ1CB333KY	AA		V	Capacitor 0.033 16V Ceramic
C9613	VCKYCZ1CB333KY	AA		V	Capacitor 0.033 16V Ceramic
C520	VCKYCZ1EB103KY	AA		V	Capacitor 0.01 25V Ceramic
C1112	VCKYCZ1EB103KY	AA		V	Capacitor 0.01 25V Ceramic
C3330	VCKYCZ1EB103KY	AA		V	Capacitor 0.01 25V Ceramic
C3344	VCKYCZ1EB103KY	AA		V	Capacitor 0.01 25V Ceramic
C1103	VCKYCZ1EF104ZY	AA		V	Capacitor 0.1 25V Ceramic
C1721	VCKYCZ1EF104ZY	AA		V	Capacitor 0.1 25V Ceramic
C1726	VCKYCZ1EF104ZY	AA		V	Capacitor 0.1 25V Ceramic
C1731	VCKYCZ1EF104ZY	AA		V	Capacitor 0.1 25V Ceramic
C1732	VCKYCZ1EF104ZY	AA		V	Capacitor 0.1 25V Ceramic
C1735	VCKYCZ1EF104ZY	AA		V	Capacitor 0.1 25V Ceramic
C1745	VCKYCZ1EF104ZY	AA		V	Capacitor 0.1 25V Ceramic
C1755	VCKYCZ1EF104ZY	AA		V	Capacitor 0.1 25V Ceramic
C1128	VCKYCZ1HB102KY	AB		V	Capacitor 1000p 50V Ceramic
C1713	VCKYCZ1HB102KY	AB		V	Capacitor 1000p 50V Ceramic
C1716	VCKYCZ1HB102KY	AB		V	Capacitor 1000p 50V Ceramic
C1717	VCKYCZ1HB102KY	AB		V	Capacitor 1000p 50V Ceramic
C1729	VCKYCZ1HB102KY	AB		V	Capacitor 1000p 50V Ceramic
C1730	VCKYCZ1HB102KY	AB		V	Capacitor 1000p 50V Ceramic
C1736	VCKYCZ1HB102KY	AB		V	Capacitor 1000p 50V Ceramic
C1738	VCKYCZ1HB102KY	AB		V	Capacitor 1000p 50V Ceramic
C1756	VCKYCZ1HB102KY	AB		V	Capacitor 1000p 50V Ceramic
C3376	VCKYCZ1HB102KY	AB		V	Capacitor 1000p 50V Ceramic
C3304	VCKYCZ1HB221KY	AA		V	Capacitor 220p 50V Ceramic
C3305	VCKYCZ1HB221KY	AA		V	Capacitor 220p 50V Ceramic
C1704	VCKYCZ1HB222KY	AA		V	Capacitor 2200p 50V Ceramic
C1707	VCKYCZ1HB222KY	AA		V	Capacitor 2200p 50V Ceramic
C1711	VCKYCZ1HB222KY	AA		V	Capacitor 2200p 50V Ceramic
C1712	VCKYCZ1HB222KY	AA		V	Capacitor 2200p 50V Ceramic
C9602	VCKYCZ1HB222KY	AA		V	Capacitor 2200p 50V Ceramic
C9614	VCKYCZ1HB222KY	AA		V	Capacitor 2200p 50V Ceramic
C1705	VCKYCZ1HB331KY	AA		V	Capacitor 330p 50V Ceramic
C1709	VCKYCZ1HB331KY	AA		V	Capacitor 330p 50V Ceramic
C1727	VCKYTV1EB224KY	AA		V	Capacitor
C1728	VCKYTV1EB224KY	AA		V	Capacitor
C1737	VCKYTV1EB224KY	AA		V	Capacitor
C1739	VCKYTV1EB224KY	AA		V	Capacitor

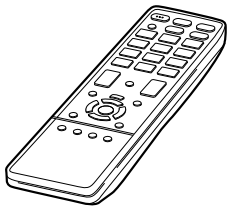
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[3] MAIN UNIT (DKEYMG247FM01/ 02)					
D9601	VHDCRS10I30-1Y	AC		V	Diode
D9602	VHDCRS10I30-1Y	AC		V	Diode
D1510	VHDDB2S310L-1Y	AB		V	Diode
D1516	VHDDB2S310L-1Y	AB		V	Diode
D3301	VHDDB2S310L-1Y	AB		V	Diode
IC9608	VHI3464A25N-1Y	AN		V	IC MM3464A25NRE
IC9606	VHI3479A18P-1Y	AD		V	IC MM3479A18PRE
IC9501	VHI3479A50P-1Y	AD		V	IC MM3479A50PRE
IC9601	VHIAP3502MP-1Y	AD		V	IC AP3502EMTR-G1
IC9603	VHIAP3503MP-1Y	AE		V	IC AP3503EMPTR-G1
IC9602	VHIBD00IC0E-1Y	AD		V	IC BD00IC0WEFJ-BZE2
IC3304	VHIHC2G66DP-1Y	AD		V	IC 74HC2G66DP,125
IC3305	VHIMSG1040L-1Q	AH		V	IC MSG1040RC-LF
IC1703	VHIPST8429U-1Y	AC		V	IC IC-PST8429UR
IC1704	VHIPST8429U-1Y	AC		V	IC IC-PST8429UR
IC3302	VHIPST8429U-1Y	AC		V	IC-PST8429UR
IC1702	VHITDA7491P-1Y	AH		V	IC-TDA7491P
IC1701	VHITPA6139A-1Y	AF		V	IC-TPA6139A2RGTR
IC3104	VHIW25Q32BV-1Y	AG		V	iC-W25Q32BVSSIG
R3329	VRK-SA1JF100JY	AB		V	Resistor 10 1/16w Metal Composition
R3338	VRK-SA1JF102JY	AB		V	Resistor 1k 1/16w Metal Composition
R3337	VRK-SA1JF333JY	AB		V	Resistor 33k 1/16w Metal Composition
R3351	VRK-SA1JF472JY	AA		V	Resistor 4.7k 1/16w Metal Composition
R3368	VRK-SA1JF472JY	AA		V	Resistor 4.7k 1/16w Metal Composition
R1516	VRK-SA1JF473JY	AC		V	Resistor 47k 1/16w Metal Composition
R1731	VRS-CZ1JF000JY	AA		V	Resistor 0 1/16w Metal Oxide
R3326	VRS-CZ1JF000JY	AA		V	Resistor 0 1/16w Metal Oxide
R3327	VRS-CZ1JF000JY	AA		V	Resistor 0 1/16w Metal Oxide
R3328	VRS-CZ1JF000JY	AA		V	Resistor 0 1/16w Metal Oxide
R3330	VRS-CZ1JF000JY	AA		V	Resistor 0 1/16w Metal Oxide
R3331	VRS-CZ1JF000JY	AA		V	Resistor 0 1/16w Metal Oxide
R3332	VRS-CZ1JF000JY	AA		V	Resistor 0 1/16w Metal Oxide
R3333	VRS-CZ1JF000JY	AA		V	Resistor 0 1/16w Metal Oxide
R3334	VRS-CZ1JF000JY	AA		V	Resistor 0 1/16w Metal Oxide
R3335	VRS-CZ1JF000JY	AA		V	Resistor 0 1/16w Metal Oxide
R3801	VRS-CZ1JF000JY	AA		V	Resistor 0 1/16w Metal Oxide
R9601	VRS-CZ1JF000JY	AA		V	Resistor 0 1/16w Metal Oxide
R1107	VRS-CZ1JF101JY	AA		V	Resistor 100 1/16w Metal Oxide
R1108	VRS-CZ1JF101JY	AA		V	Resistor 100 1/16w Metal Oxide
R3339	VRS-CZ1JF101JY	AA		V	Resistor 100 1/16w Metal Oxide
R520	VRS-CZ1JF102JY	AA		V	Resistor 1k 1/16w Metal Oxide
R1505	VRS-CZ1JF102JY	AA		V	Resistor 1k 1/16w Metal Oxide
R1714	VRS-CZ1JF102JY	AA		V	Resistor 1k 1/16w Metal Oxide
R1715	VRS-CZ1JF102JY	AA		V	Resistor 1k 1/16w Metal Oxide
R3307	VRS-CZ1JF102JY	AA		V	Resistor 1k 1/16w Metal Oxide
R3308	VRS-CZ1JF102JY	AA		V	Resistor 1k 1/16w Metal Oxide
R3309	VRS-CZ1JF102JY	AA		V	Resistor 1k 1/16w Metal Oxide
R3310	VRS-CZ1JF102JY	AA		V	Resistor 1k 1/16w Metal Oxide
R3325	VRS-CZ1JF102JY	AA		V	Resistor 1k 1/16w Metal Oxide
R3345	VRS-CZ1JF102JY	AA		V	Resistor 1k 1/16w Metal Oxide
R9618	VRS-CZ1JF102JY	AA		V	Resistor 1k 1/16w Metal Oxide
R9620	VRS-CZ1JF103FY	AB		V	Resistor 10k 1/16w Metal Oxide
R9631	VRS-CZ1JF103FY	AB		V	Resistor 10k 1/16w Metal Oxide
R503	VRS-CZ1JF103JY	AA		V	Resistor 10k 1/16w Metal Oxide
R504	VRS-CZ1JF103JY	AA		V	Resistor 10k 1/16w Metal Oxide
R513	VRS-CZ1JF103JY	AA		V	Resistor 10k 1/16w Metal Oxide
R516	VRS-CZ1JF103JY	AA		V	Resistor 10k 1/16w Metal Oxide
R524	VRS-CZ1JF103JY	AA		V	Resistor 10k 1/16w Metal Oxide
R534	VRS-CZ1JF103JY	AA		V	Resistor 10k 1/16w Metal Oxide
R536	VRS-CZ1JF103JY	AA		V	Resistor 10k 1/16w Metal Oxide
R1116	VRS-CZ1JF103JY	AA		V	Resistor 10k 1/16w Metal Oxide
R1510	VRS-CZ1JF103JY	AA		V	Resistor 10k 1/16w Metal Oxide
R1705	VRS-CZ1JF103JY	AA		V	Resistor 10k 1/16w Metal Oxide
R1706	VRS-CZ1JF103JY	AA		V	Resistor 10k 1/16w Metal Oxide
R3324	VRS-CZ1JF103JY	AA		V	Resistor 10k 1/16w Metal Oxide
R3336	VRS-CZ1JF103JY	AA		V	Resistor 10k 1/16w Metal Oxide
R3344	VRS-CZ1JF103JY	AA		V	Resistor 10k 1/16w Metal Oxide
R3353	VRS-CZ1JF103JY	AA		V	Resistor 10k 1/16w Metal Oxide
R3430	VRS-CZ1JF103JY	AA		V	Resistor 10k 1/16w Metal Oxide
R9639	VRS-CZ1JF103JY	AA		V	Resistor 10k 1/16w Metal Oxide
R9642	VRS-CZ1JF103JY	AA		V	Resistor 10k 1/16w Metal Oxide
R522	VRS-CZ1JF104JY	AA		V	Resistor 100k 1/16w Metal Oxide
R523	VRS-CZ1JF104JY	AA		V	Resistor 100k 1/16w Metal Oxide
R1709	VRS-CZ1JF104JY	AA		V	Resistor 100k 1/16w Metal Oxide
R1711	VRS-CZ1JF104JY	AA		V	Resistor 100k 1/16w Metal Oxide
R9609	VRS-CZ1JF104JY	AA		V	Resistor 100k 1/16w Metal Oxide
R9612	VRS-CZ1JF123FY	AA		V	Resistor 12k 1/16w Metal Oxide
R202	VRS-CZ1JF123JY	AA		V	Resistor 12k 1/16w Metal Oxide
R204	VRS-CZ1JF123JY	AA		V	Resistor 12k 1/16w Metal Oxide
R505	VRS-CZ1JF123JY	AA		V	Resistor 12k 1/16w Metal Oxide
R506	VRS-CZ1JF123JY	AA		V	Resistor 12k 1/16w Metal Oxide
R511	VRS-CZ1JF123JY	AA		V	Resistor 12k 1/16w Metal Oxide
R515	VRS-CZ1JF123JY	AA		V	Resistor 12k 1/16w Metal Oxide
R532	VRS-CZ1JF123JY	AA		V	Resistor 12k 1/16w Metal Oxide
R535	VRS-CZ1JF123JY	AA		V	Resistor 12k 1/16w Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[3] MAIN UNIT (DKEYMG247FM01/ 02)					
R9615	VRS-CZ1JF123JY	AA		V	Resistor 12k 1/16w Metal Oxide
R9623	VRS-CZ1JF123JY	AA		V	Resistor 12k 1/16w Metal Oxide
R1734	VRS-CZ1JF124JY	AA		V	Resistor 120k 1/16w Metal Oxide
R9616	VRS-CZ1JF152FY	AA		V	Resistor 1.5k 1/16w Metal Oxide
R1103	VRS-CZ1JF181JY	AA		V	Resistor 180 1/16W Metal Oxide
R1104	VRS-CZ1JF181JY	AA		V	Resistor 180 1/16W Metal Oxide
R9630	VRS-CZ1JF183JY	AA		V	Resistor 18k 1/16W Metal Oxide
R1707	VRS-CZ1JF220JY	AA		V	Resistor 20k 1/16W Metal Oxide
R1713	VRS-CZ1JF222FY	AA		V	Resistor 2.2k 1/16W Metal Oxide
R1728	VRS-CZ1JF223FY	AA		V	Resistor 22k 1/16W Metal Oxide
R9619	VRS-CZ1JF223FY	AA		V	Resistor 22k 1/16W Metal Oxide
R9627	VRS-CZ1JF223FY	AA		V	Resistor 22k 1/16W Metal Oxide
R3311	VRS-CZ1JF224JY	AA		V	Resistor 220k 1/16W Metal Oxide
R3312	VRS-CZ1JF224JY	AA		V	Resistor 220k 1/16W Metal Oxide
R3340	VRS-CZ1JF224JY	AA		V	Resistor 220k 1/16W Metal Oxide
R3341	VRS-CZ1JF224JY	AA		V	Resistor 220k 1/16W Metal Oxide
R9607	VRS-CZ1JF270JY	AA		V	Resistor 27 1/16W Metal Oxide
R9622	VRS-CZ1JF270JY	AA		V	Resistor 27 1/16W Metal Oxide
R3343	VRS-CZ1JF272FY	AA		V	Resistor 2.7k 1/16W Metal Oxide
R3321	VRS-CZ1JF272JY	AA		V	Resistor 2.7k 1/16W Metal Oxide
R525	VRS-CZ1JF330JY	AA		V	Resistor 33 1/16w Metal Oxide
R526	VRS-CZ1JF330JY	AA		V	Resistor 33 1/16w Metal Oxide
R1101	VRS-CZ1JF330JY	AA		V	Resistor 33 1/16w Metal Oxide
R1102	VRS-CZ1JF330JY	AA		V	Resistor 33 1/16w Metal Oxide
R3304	VRS-CZ1JF330JY	AA		V	Resistor 33 1/16w Metal Oxide
R3354	VRS-CZ1JF330JY	AA		V	Resistor 33 1/16w Metal Oxide
R3355	VRS-CZ1JF330JY	AA		V	Resistor 33 1/16w Metal Oxide
R3356	VRS-CZ1JF330JY	AA		V	Resistor 33 1/16w Metal Oxide
R1732	VRS-CZ1JF333JY	AA		V	Resistor 33 1/16w Metal Oxide
R1733	VRS-CZ1JF333JY	AA		V	Resistor 33 1/16w Metal Oxide
R1712	VRS-CZ1JF392FY	AA		V	Resistor 3.9k 1/16w Metal Oxide
R9617	VRS-CZ1JF392FY	AA		V	Resistor 3.9k 1/16w Metal Oxide
R9628	VRS-CZ1JF392FY	AA		V	Resistor 3.9k 1/16w Metal Oxide
R1708	VRS-CZ1JF393JY	AA		V	Resistor 39k 1/16w Metal Oxide
R3347	VRS-CZ1JF471JY	AA		V	Resistor 470 1/16w Metal Oxide
R3101	VRS-CZ1JF472JY	AA		V	Resistor 4.7k 1/16w Metal Oxide
R3305	VRS-CZ1JF472JY	AA		V	Resistor 4.7k 1/16w Metal Oxide
R3315	VRS-CZ1JF472JY	AA		V	Resistor 4.7k 1/16w Metal Oxide
R3323	VRS-CZ1JF472JY	AA		V	Resistor 4.7k 1/16w Metal Oxide
R9602	VRS-CZ1JF472JY	AA		V	Resistor 4.7k 1/16w Metal Oxide
R9610	VRS-CZ1JF473FY	AA		V	Resistor 47k 1/16W Metal Oxide
R1511	VRS-CZ1JF473JY	AA		V	Resistor 47k 1/16W Metal Oxide
R9629	VRS-CZ1JF473JY	AA		V	Resistor 47k 1/16W Metal Oxide
R1735	VRS-CZ1JF563JY	AA		V	Resistor 56k 1/16W Metal Oxide
R3357	VRS-CZ1JF680JY	AB		V	Resistor 68 1/16w Metal Oxide
R3371	VRS-CZ1JF680JY	AB		V	Resistor 68 1/16w Metal Oxide
R1717	VRS-CZ1JF752JY	AB		V	Resistor 7.5k 1/16w Metal Oxide
R201	VRS-CZ1JF822JY	AB		V	Resistor 8.2k 1/16w Metal Oxide
R203	VRS-CZ1JF822JY	AB		V	Resistor 8.2k 1/16w Metal Oxide
R1701	VRS-TQ2EF220JY	AA		V	Resistor 22 1/4w Metal Oxide
R1702	VRS-TQ2EF220JY	AA		V	Resistor 22 1/4w Metal Oxide
R533	VRS-TQ2EF750JY	AA		V	Resistor 75 1/4w Metal Oxide
R547	VRS-TQ2EF750JY	AA		V	Resistor 75 1/4w Metal Oxide
R548	VRS-TQ2EF750JY	AA		V	Resistor 75 1/4w Metal Oxide
R549	VRS-TQ2EF750JY	AA		V	Resistor 75 1/4w Metal Oxide
R9608	VRS-TW2HF1R0JY	AA		V	Resistor 1 1/2w Metal Oxide
R9611	VRS-TW2HF1R0JY	AA		V	Resistor 1 1/2w Metal Oxide
R9624	VRS-TW2HF1R0JY	AA		V	Resistor 1 1/2w Metal Oxide
R9625	VRS-TW2HF1R0JY	AA		V	Resistor 1 1/2w Metal Oxide
Q9601	VSKTA1535T+-1Y	AC		V	Transistor
Q1501	VSLTC044EEB-1Y	AB		V	Transistor
Q1502	VSLTC044EEB-1Y	AB		V	Transistor
Q1701	VSLTC044EEB-1Y	AB		V	Transistor
Q3303	VSRT1N141C/-1Y	AB		V	Transistor RT1N141U-T112-1
Q9605	VSRT1N141C/-1Y	AB		V	Transistor RT1N141U-T112-2
Q3302	VSRT1N141U/-1Y	AB		V	Transistor RT1N141U-T112-3
Q1503	VSRT1N441U/-1Y	AB		V	Transistor
J501	QJAKJA027WJZZ	AC		V	Jack
J504	QJAKJA027WJZZ	AC		V	Jack
J503	QJAKJA030WJQZ	AD		V	Jack
J502	QJAKZA133WJZZ	AG		V	Jack
J9501	QSOCZA330WJQZ	AD		V	Jack
TU1101	RTUNQA073WJQZ	AR		V	Tuner
[4] CABINET AND MECHNICAL PARTS					
1	CCABBC185WJ01			V	REAR CABINET ASSEMBLY (LC-32LE250M)
1-1	GCABBC185WJ4A			V	REAR CABINET (LC-32LE250M)
1-2	JBTN-A960WJ4B			V	CONTROL BUTTON
1-3	LANGKD438WJ4W	AD		V	VESA ANGLE (X2)
1-4	XEBS930P08000	AA		V	FOR VESA ANGLE (X2)
1-5	PSPAHC407WJ00			V	SPACER (x15)
1-6	PSPAHC676WJ00			V	SPACER (x5)
1-7	PSPAHC677WJ00			V	SPACER (x10)
2	CANGKD856WJ01	AH		V	FRONT ANGLE LEFT ASSEMBLY
2-1	LANGKD856WJ4W			V	FRONT ANGLE LEFT

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[4] CABINET AND MECHNICAL PARTS					
2-2	PSPAZC522WJ4Z	AB		V	LEG CUSHION
3	CANGKD857WJ01	AH		V	FRONT ANGLE RIGHT ASSEMBLY
3-1	LANGKD857WJ4W			V	FRONT ANGLE RIGHT
3-2	PSPAZC522WJ4Z	AB		V	LEG CUSHION
4	GCOVAE341WJ4D	AD		V	AC CORD COVER
5	LANGKD855WJ4W	AN		V	BOTTOM ANGLE
6	LHLDWA101WJKZ	AD		V	AC CORD HOOK
7	PSPAZB202WJKZ	AB		V	PWB SPACER (FOR LC-32LE250M ONLY)
8	QACCBA119WJPZ			V	AC CORD (FOR MIDDLE EAST)
8	QACCZA213WJPZ			V	AC CORD (EXCEPT FOR PHILIPINES/THAILAND)
8	QACCZA214WJPZ	AN		V	AC CORD (FOR PHILIPINES)
8	QACCZA215WJPZ			V	AC CORD (FOR THAILAND)
9	QCNW-N120WJQZ			V	RA WIRE
10	QCNW-N177WJPZ			V	LVDS WIRE (FOR LC-32LE250M ONLY)
11	QCNW-N179WJQZ			V	PD WIRE
12	QCNW-N180WJQZ			V	L1 WIRE
13	RSP-ZA633WJPZ			V	SPEAKER (L/R)
14	XBPS730P06WS0	AA		V	SCREW FOR ANGLE (X13) (FOR LC-32LE250M ONLY)
15	XBPS730P06WS0	AA		V	SCREW FOR ANGLE (X14) (FOR LC-32LE250M ONLY)
16	CCABAC983WJ01	AZ		V	FRONT CABINET ASSEMBLY (LC-32LE250M)
17	GCABAC983WJ4A			V	FRONT CABINET (LC-32LE250M)
18	HDECQB802WJ4A	AC			LED COVER
19	HPNLSA443WJ4A	AH			SPEAKER SHEET (LC-32LE250M)
20	ZSFIM-60T550E	AB			PROTECT SHEET (X2)
21	ZSFIM-60T800E	AB			PROTECT SHEET (X2)
22	PSPAHC675WJ00				SPACER
23	XEBS830P12000	AA		V	SCREW FOR CAB-B (X4)
[5] LCD PANEL					
1	CLCDTA290WE01	CL		V	LCD PANEL UNIT
2	CANGKD892WJ01	AY		V	BEZEL ANGLE ASSEMBLY
2-1	LANGKD892WJ4W			V	BEZEL ANGLE
2-2	LHLDZC006WJ4Z	AD		V	G8 HOLDER L (X2)
2-3	LHLDZC007WJ4Z	AD		V	G8 HOLDER T (X2)
2-4	LHLDZC008WJ4Z	AD		V	G8 HOLDER R (X2)
2-5	LHLDZC009WJ4Z	AD		V	G8 HOLDER BL
2-6	LHLDZC010WJ4Z	AD		V	G8 HOLDER BR
2-7	PSPAGC820WJZZ	AD		V	SPACER (X2)
2-8	PSPAGB109WJZZ	AC		V	SPACER (X2)
3	CCHSMA680WJ01	BA			PWB CHASSIS ASSEMBLY
3-1	LCHSMA680WJ4W				PWB CHASSIS
3-2	LHLDWA360WJUZ	AD			S-PWB HOLDER A (X2)
3-3	LHLDWA361WJUZ	AD			S-PWB HOLDER B (X2)
3-4	LHLDWA363WJUZ	AD			LED WIRE HOLDER
4	CHLDZC012WJ01	AF			SHADING FRAME TL ASSEMBLY
4-1	LHLDZC012WJ4Z	AE			SHADING FRAME TL
4-2	PSHEPB282WJZZ				TOP TAPE
5	CHLDZC014WJ01	AF			SHADING FRAME LEFT ASSEMBLY
5-1	LHLDZC014WJ4Z	AF			SHADING FRAME LEFT
5-2	PSHEPB280WJZZ				LEFT TAPE
6	CHLDZC015WJ01	AF			SHADING FRAME RIGHT ASSEMBLY
6-1	LHLDZC015WJ4A				SHADING FRAME RIGHT
6-2	PSHEPB281WJZZ				RIGHT TAPE
7	LHLDZC011WJ4Z	AG			SHADING FRAME BOTTOM
8	LHLDZC013WJ4Z	AE			SHADING FRAME TR
9	LX-BZ2312TPZZ	AB			SCREW FOR CHASSIS (X6)
10	PGIDMA074WJZZ	BD			LGP
11	PMIR-A335WJ4A	AQ			REFLECTION
12	PRDARB097WJ4W	AH			HEAT SPREADER
13	PSHEPB274WJ4A	AR			DIFFUSION (X2) (FOR LC-32LE250/350M)
14	PSHEPB275WJ4A				PRISM
15	R1LK315T3HB60W	CK			PANEL HIRAKI
16	RUNTKB129WJZZ	AZ			LED PWB A
17	RUNTKB130WJZZ	AZ			LED PWB B
18	XBPS730P06WS0	AA			ANGLE SCREW (X2)
19	XEBS830P12000	AA			SCREW M3X12

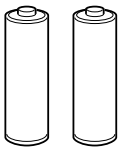
[6] SUPPLIED ACCESSORIES

X1 Remote control unit

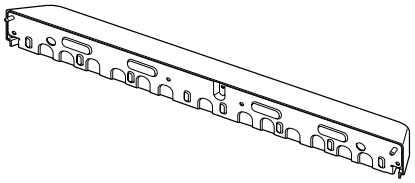


X2 Operation manual

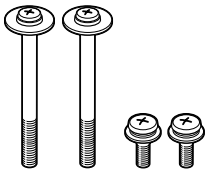
X3 AAA size battery (×2)



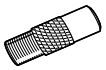
Stand unit



X4 Stand base



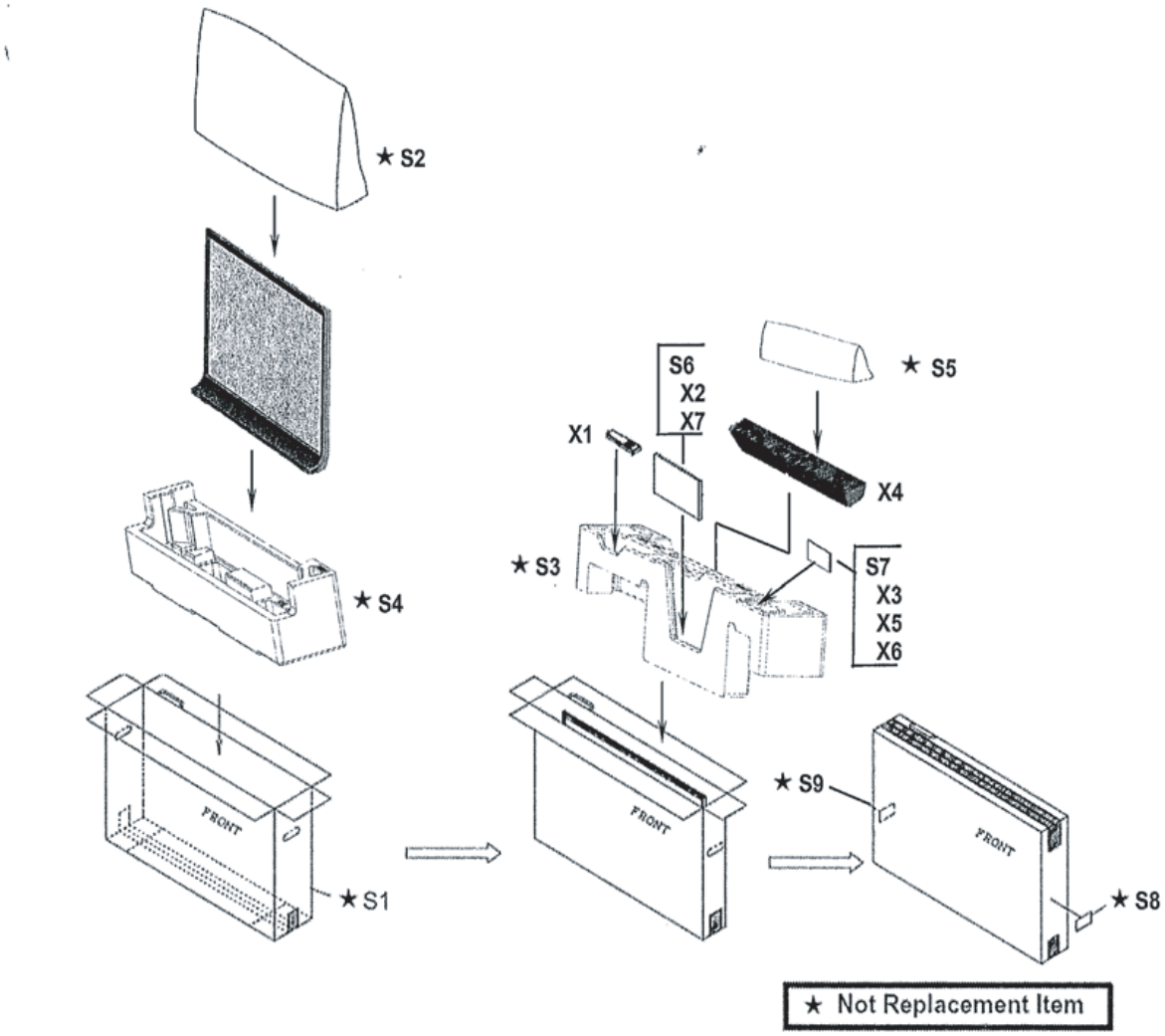
X5 Screws (× 4)



X6 Antenna adapter

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[6] SUPPLIED ACCESSORIES					
X1	RRMCGB071WJSA	AP		V	R/C GUN (LC-32LE250M)
X3	NOT AVAILABLE				BATTERY (X2)
X2	TINS-F746WJZZ	AC		V	OPERATION MANUAL (250M FOR INDONESIA/VIETNAM/THAIL
X2	TINS-F747WJZZ	AC		V	OPERATION MANUAL (250M FOR ASIA)
X2	TINS-F748WJZZ	AD		V	OPERATION MANUAL (250M FOR ASIA/MIDDLE EAST)
X2	TINS-F749WJZZ	AC		V	OPERATION MANUAL (250M FOR THAILAND)
X2	TINS-F751WJZZ	AC		V	OPERATION MANUAL (250M FOR INDONESIA)
X2	TINS-F752WJZZ	AC		V	OPERATION MANUAL (250M FOR VIETNAM)
X2	TINS-F753WJZZ	AC		V	OPERATION MANUAL (250M FOR MIDDLE EAST)
X2	TINS-F754WJZZ	AD		V	OPERATION MANUAL (250M FOR ASIA/MIDDLE EAST)
X2	TINS-F755WJZZ	AD		V	OPERATION MANUAL (250M FOR MIDDLE EAST)
X2	TINS-F756WJZZ	AC		V	OPERATION MANUAL (250M FOR PHILIPPINES)
X4	CCOVAE604WJ02	AU		V	KS-STAND
X5	LX-BZA385WJF8	AB		V	STAND SCREW (X2)
X5	LX-BZA520WJF8			V	STAND SCREW (X2)
X6	QCNCWA969WJZZ	AF		V	ANTENNA ADAPTOR (FOR PHILIPPINES)
X7	TGAN-B249WJZZ	AC		V	WARRANTY CARD (FOR PHILIPPINES)
X7	TGAN-B383WJN1	AD		V	WARRANTY CARD (FOR VIETNAM)
X7	TGAN-B636WJZZ	AD		V	WARRANTY CARD (FOR ASIA/MALAYSIA)
X7	TGAN-B728WJZZ	AG		V	WARRANTY CARD (FOR INDONESIA)

[7] PACKING PARTS (NOT REPLACEMENT ITEM)



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[7] PACKING PARTS (NOT REPLACEMENT ITEM)					
S1	SPAKCH070WJZZ	AQ		V	PACKING CASE (LC-32LE250M)except INDONESIA
S1	SPAKCH083WJZZ	AQ		V	PACKING CASE (LC-LE250M) INDONESIA
S2	SPAKPB924WJZZ	AE		V	HOSO-PP
S3	SPAKXD903WJZZ	AN		V	P-AD TOP
S4	SPAKXD904WJZZ			V	P-AD BOTTOM
S5	SPAKPB925WJZZ	AC		V	STAND HOSO SACK
S6	SSAKA0001PEZZ	AA		V	POLYETHYLENE BAG
S7	CBATUA024WJ06	AG		V	SCREW & BATTERY PACK (except PHILIPPINES)
S7	CBATUA024WJ07	AK		V	SCREW & BATTERY PACK (PHILIPPINES)
S8	TLABV0182AJZZ	AB		V	NO. CARD
S9	TLABZD534WJZZ	AB		V	CARTON LABEL (LE250M VIETNAM)

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